











THE  
**CYCLOPÆDIA;**  
OR,  
**Universal Dictionary**  
OF  
**ARTS, SCIENCES, AND LITERATURE.**

PLATES. VOL. V.

NATURAL HISTORY.



THE  
CYCLOPEDIA  
OF  
NATURAL HISTORY  
AND  
LITERATURE  
IN  
FIVE VOLUMES  
BY  
JOHN HARRIS



THE  
CYCLOPÆDIA;

OR,

UNIVERSAL DICTIONARY

OF

Arts, Sciences, and Literature.

BY

ABRAHAM REES, D.D. F.R.S. F.L.S. *S. Amer. Soc.*

WITH THE ASSISTANCE OF  
EMINENT PROFESSIONAL GENTLEMEN.



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ILLUSTRATED WITH NUMEROUS ENGRAVINGS,  
BY THE MOST DISTINGUISHED ARTISTS.

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PLATES. VOL. V.  
NATURAL HISTORY.

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LONDON:

PRINTED FOR LONGMAN, HURST, REES, ORME, & BROWN, PATERNOSTER-ROW,  
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1820.



# ALPHABETIC

ALPHABETIC

ALPHABETIC

SL

ALPHABETIC
030.1
1579



CLASS I.<sup>ST</sup> MAMMALIA — ORDER I.<sup>ST</sup> PRIMATES.

Genus II.<sup>ND</sup> SIMIA — Division I.<sup>ST</sup> APE.



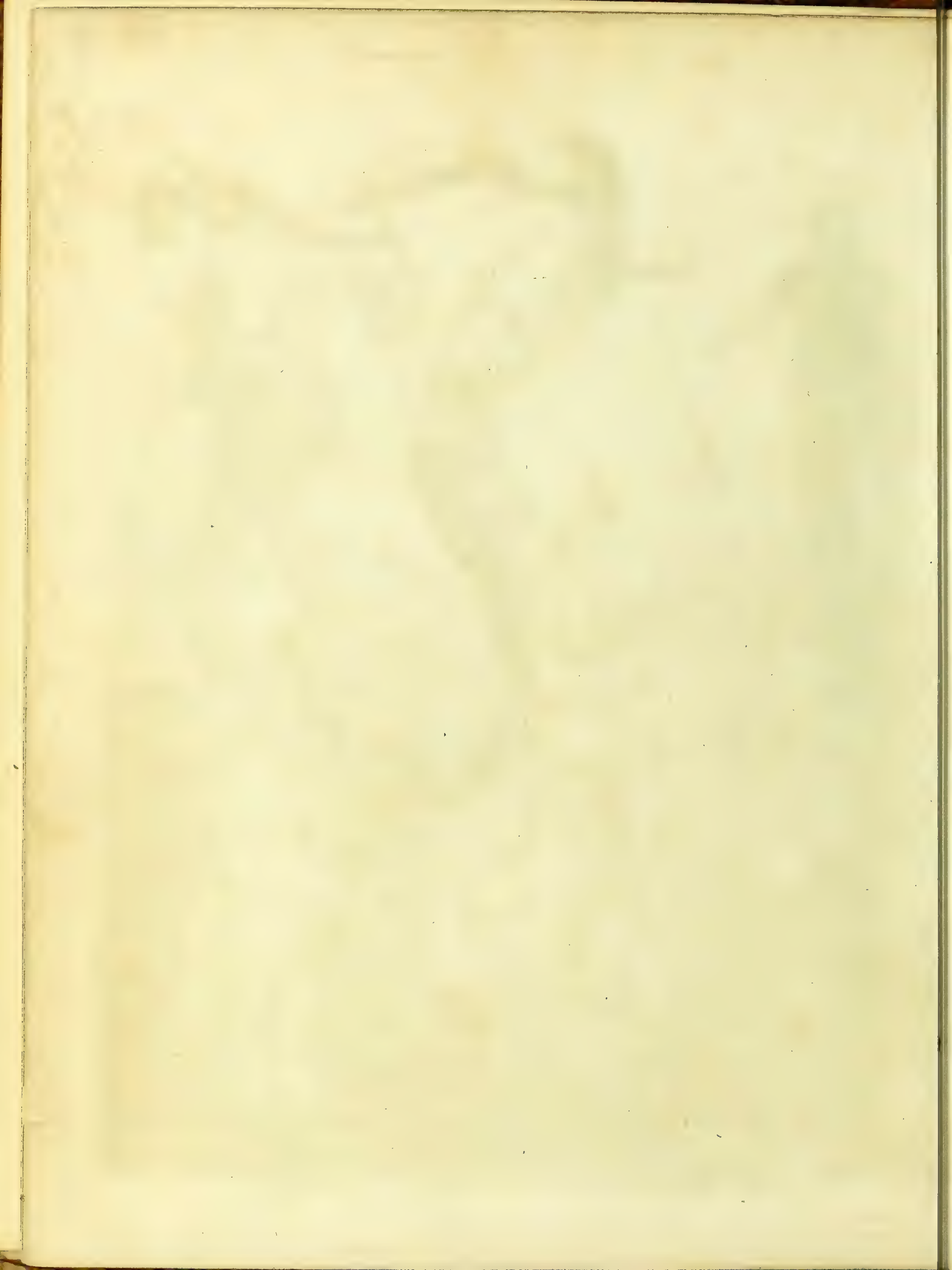
1 ORAN OTANG.  
2 CHESNUT OTANG.

3 CHIMPANZEE.  
4 LONG ARMED APE

5 BARBARY APE.  
6 PIGMY APE.

7 RED TAILED APE.  
8 STRIPPED APE







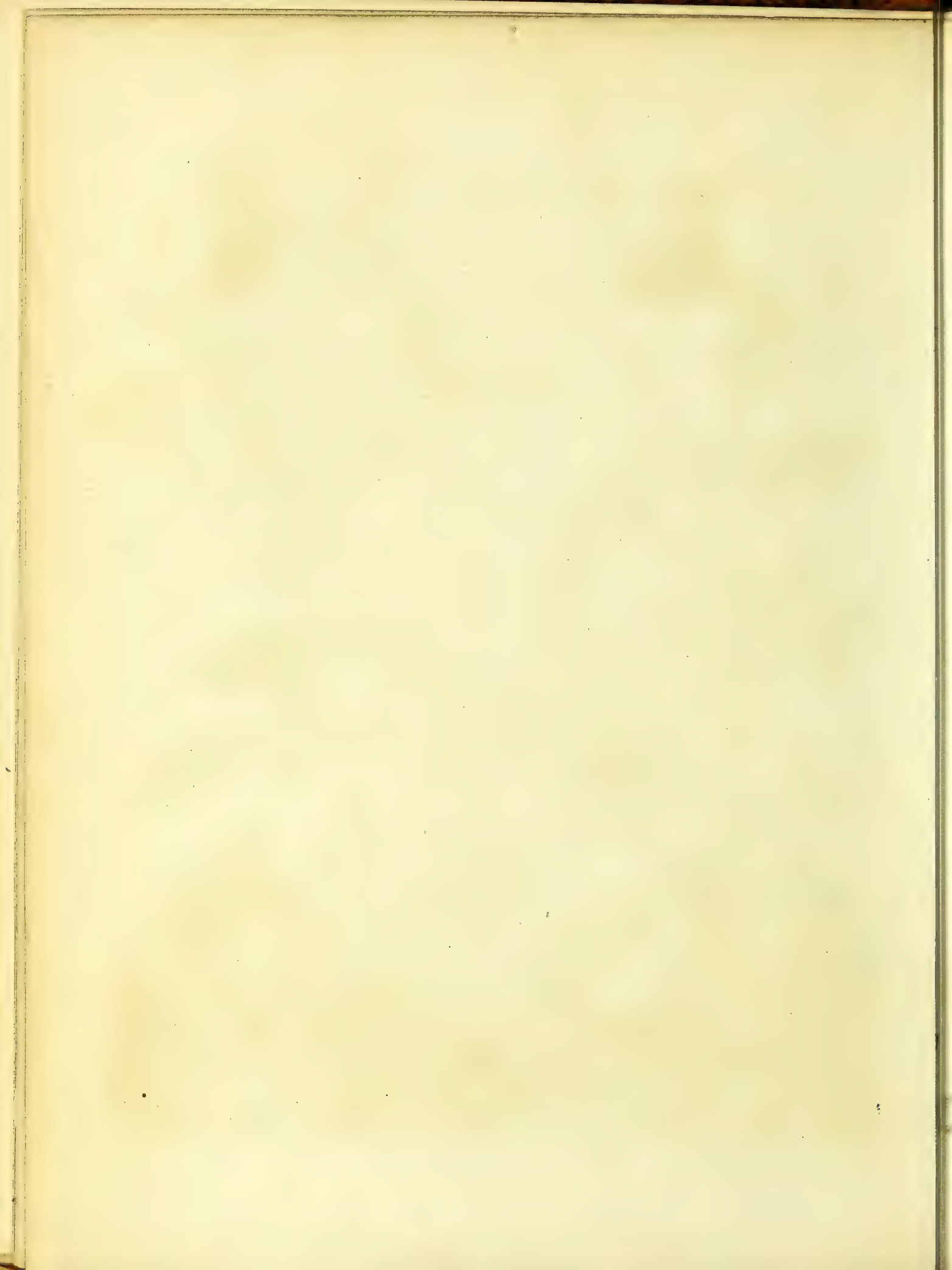
# QUADRUPEDS.

CLASS MAMMALIA ORDER PRIMATES. GENUS LEMUR. GENUS GALEOPITHECUS. GEOFF.

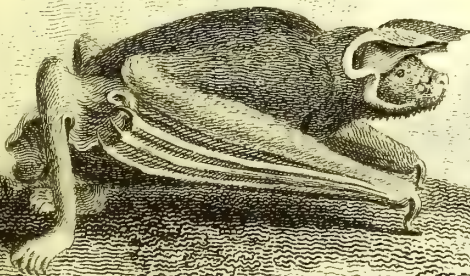
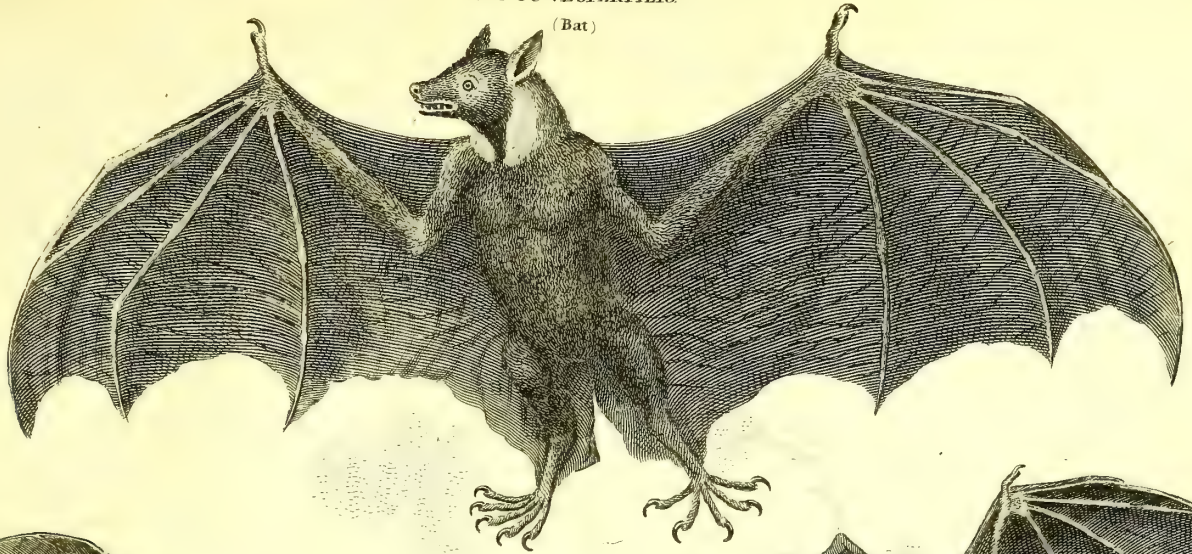


1. L. Ptdje Tarsier — 2. L. Ecaudatus Taillefs Maucauco. — 3. L. Marinus Marine Lemur. — 4. L. Catta Ring-tail Maucauco. — 5. L. Tardigradus Loris.  
6. L. Volans Flying Lemur. (Galeopithecus rufus Audub.)









1 V. Vampyrus 2 V. Auritus 3 V. Spasma 4 V. Leporinus 5 V. Spectrum  
VAMPIRE B. LONG EARED B. CORDATED B. PERUVIAN B. SPECTRE B.

Published as the Act directs March 1, 1813 by Longman Hurst Ross & Brown Paternoster Row.

Ed Edwards del

Wilton sculp







# QUADRUPEDS.

CLASS MAMMALIA. ORDER BRUTA. GENUS BRADYPUS. GENUS MYRMECOPHAGA. GENUS ORNYTHORINCHUS.



1. *Bradypus tridactylus*. Three toed Sloth. 2. *B. didactylus*. Two toed Sloth. 3. *Myrmecophaga didactyla*. Two toed or little Ant eater. 4. *M. tetradactyla*. Four toed Ant eater. 5. *M. jubata*. Great Ant eater. 6. *Ornythorinchus paradoxus*. Duck billed *Ornythorinchus*.









1. Manis Pentadactyla short tailed Manis — 2. Manis Tetradaactyla long tailed Manis — 3. Dasypus Sexcinctus Six banded Armadillo.  
4. Dasypus Novemcinctus Nine banded Armadillo — 5. Dasypus Duodecincinctus Uncinctus Linn Twelve banded Armadillo

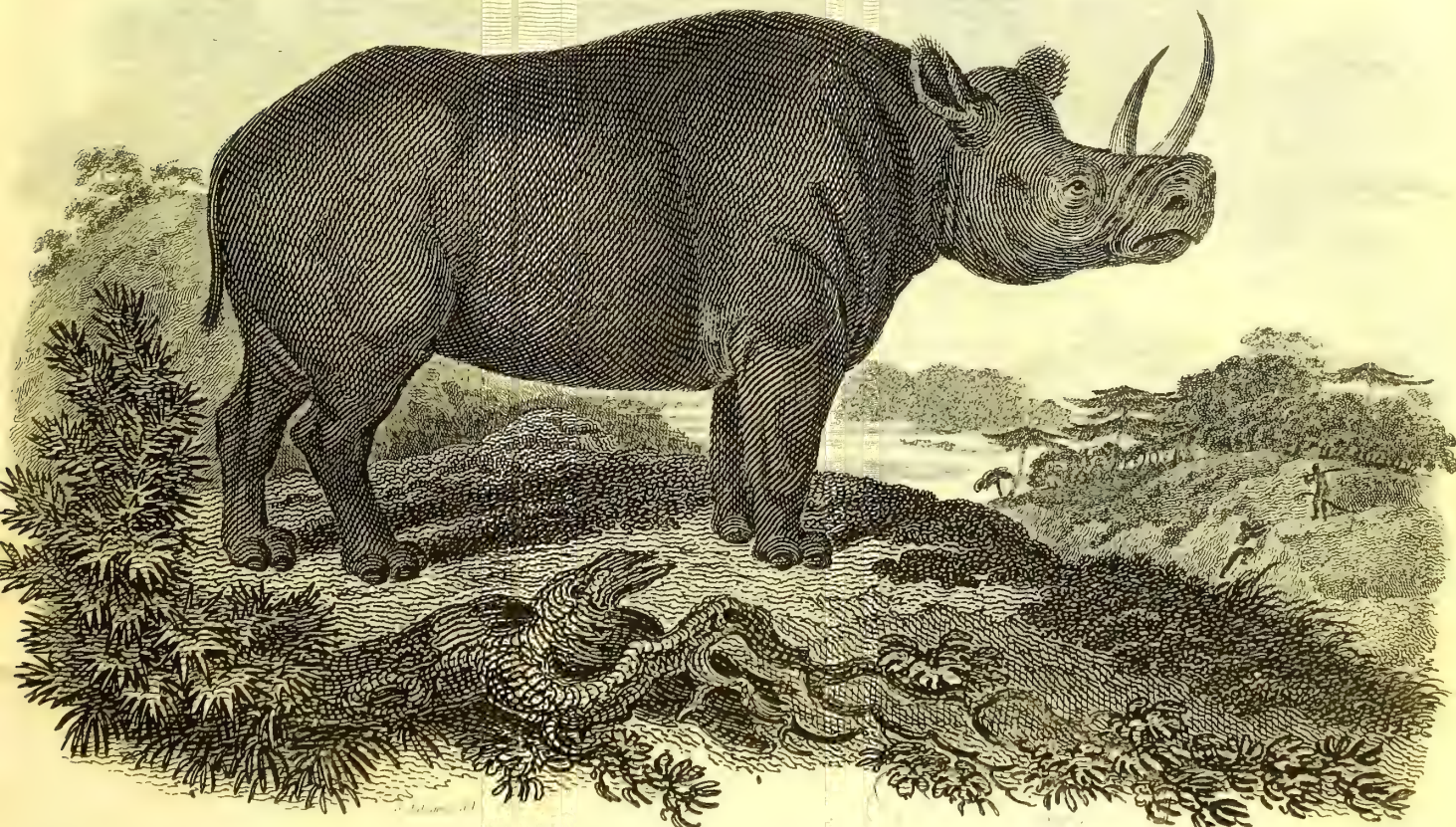








Rhinoceros unicornis. One horned Rhinoceros.



Rhinoceros bicornis. Two horned Rhinoceros.







# QUADRUPEDS

CLASS MAMMALIA. ORDER FERA. GENUS TRICHECHUS. GENUS PHOCA.



1. *Trichechus Rosmarus*, Arctic Walrus or Morse. 2. *T. Manatus* (var. *borealis*) Manatus. 3. *Phoca Ursina*, Ursine Seal.  
4. *P. Groenlandica* Harp Seal. 5. *P. Vitulina*, Common Seal or Sea Calf. 6. *P. Maculata*, Spotted Seal





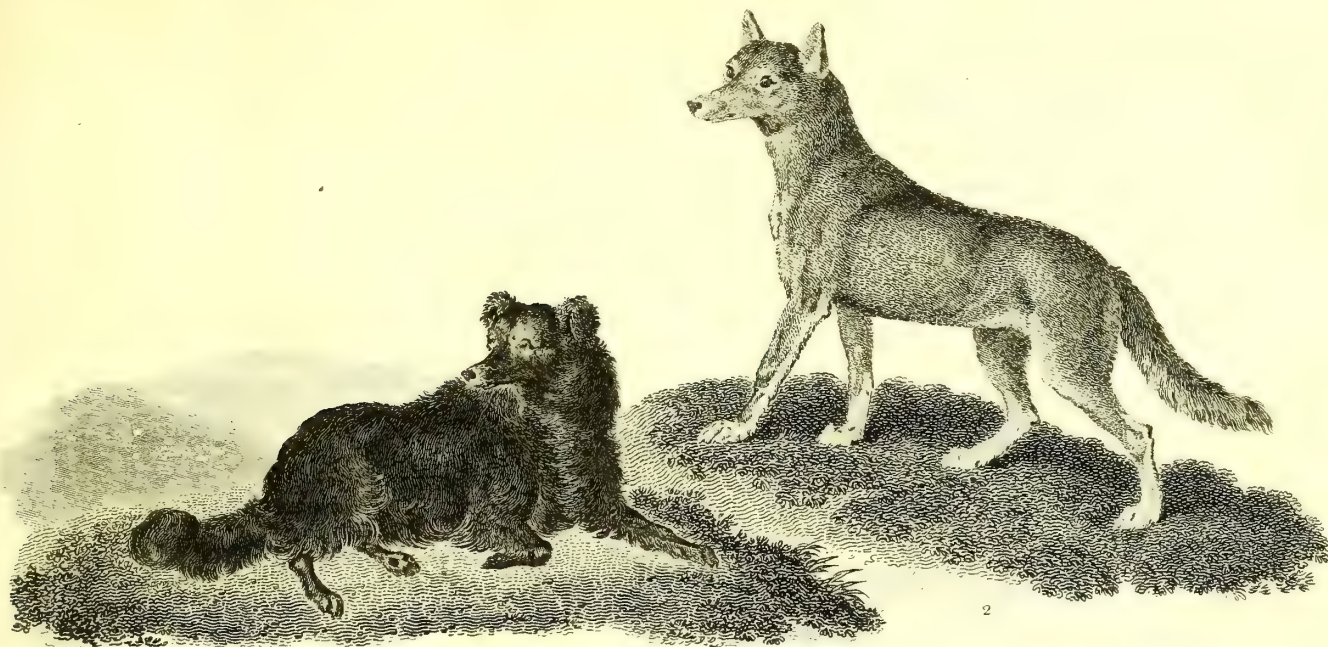


# QUADRUPEDS.

Linn Syst.

CLASS I<sup>st</sup> MAMMALIA — ORDER III<sup>d</sup> FERÆ — GENUS IV<sup>th</sup> CANIS.

PLATE II of Order F<sup>ce</sup>



1

2



3

4

5



6

7

1. Shepherd's Dog — 2. Canine — 3. Sheepdog — 4. Siberian Dog — 5. Canine — 6. Small Barbet — 7. Great Barbet or Water Dog —  
*Published as the Act directs Edw. 1<sup>st</sup> 1801, by Longman & Rees Printers in Row.*







QUADRUPEDS.

CLASS I<sup>st</sup> MAMMALIA ORDER III<sup>d</sup> FERR. GENUS XV CANIS.



1. King Charles's Dog. 2. Pyrame. 3. Naked or Turkish Hound. 4. Pug. 5. Spaniel. 6. Shock. 7. Small Dane. 8. Lion D. 9. Roquet.







CLASS 1<sup>st</sup> MAMMALIA — ORDER III<sup>rd</sup> FERA — GENUS IV CANIS.

1. Mastiff 2. Bull Dog 3. G. Danish or Harlequin D. 4. Dalmatian Dog.









1. Old English or Talbot Hound — 2. Beagle. — 3. Harrier — 4. British Blood Hound.









1. Stag Hound — 2. Fox Hound — 3 & 4. Smooth Terriers — 5. Rough Terrier.







QUADRUPEDS.  
CLASS MAMMALIA. ORDER FERÆ. GENUS CANIS.



1. Canis Lupus. Wolf. 2. C. Hyæna. Striped Hyæna. 3. C. Mesomelas. Cape Jackal.  
4. C. Vulpes. Common Fox. 5. C. Lagopus. Arctic Fox.

*Published as the Act directs, August 1<sup>st</sup> 1839, by Longman, Hurst, Rees, & Orme, Printers in the Strand.*









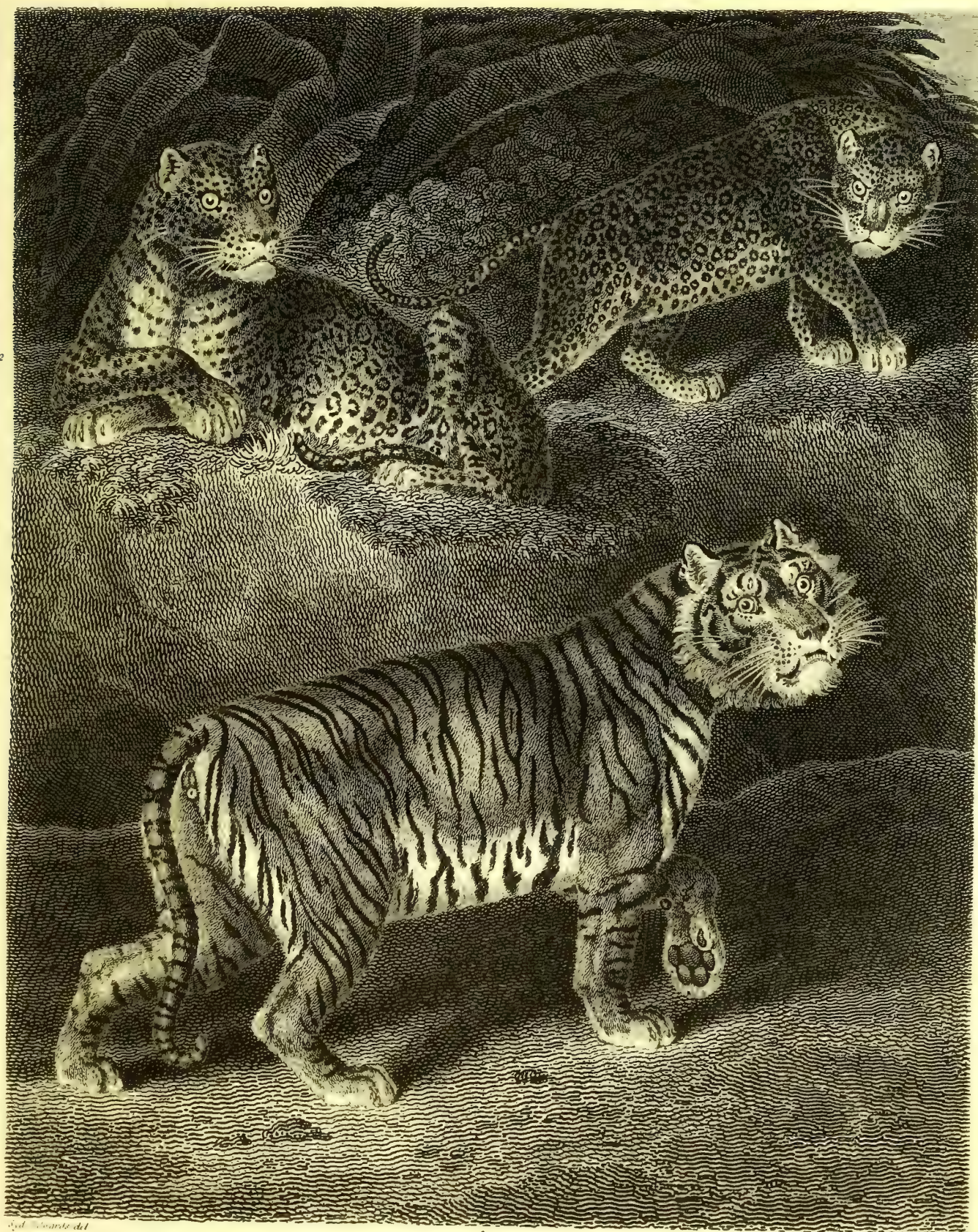
S. Edwards del.

Felis Leo - Lion, Lioness & Young.









1. F. Tigris. 2. F. Pardus. 3. F. Leopardus.  
TIGER. PANTHER. LEOPARD.



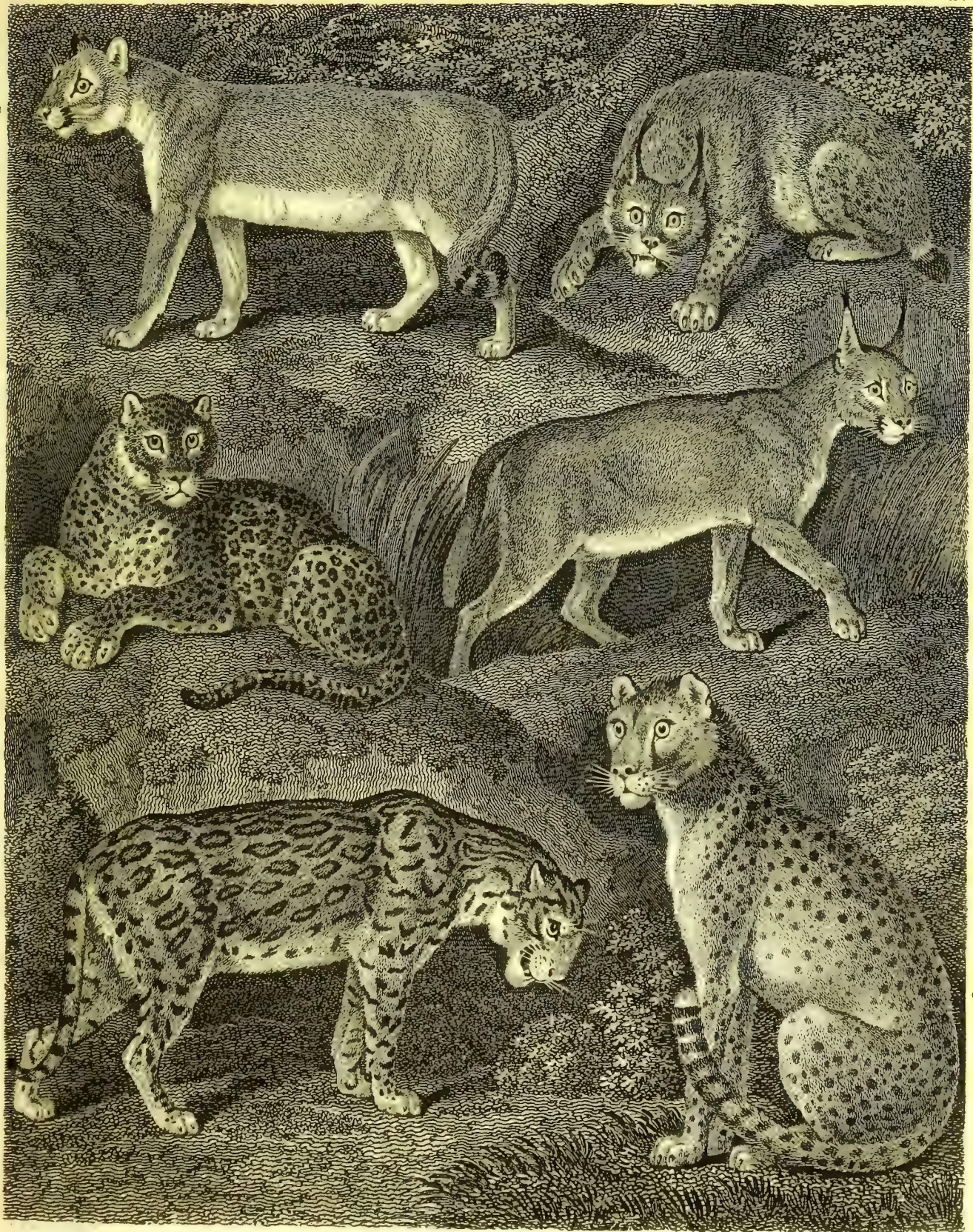




# QUADRUPEDS

GENUS FELIS. TYGERS.

PLATE II.



1. Felis Fuma, Cougar — 2. Felis Lynx, the Lynx — 3. Felis Uncia Oniec — 4. Felis Carnael Russian Lynx  
5. Felis Onca Jaguar — 6. Felis Jubata Hunting Leopard.

the Art directed, & engraved, by Longman, Hurst, Ross & Orme, Patented for the







# QUADRUPEDS

Linn Syst.

CLASS I.<sup>st</sup> MAMMALIA ORDER III.<sup>d</sup> FERÆ GENUS FELIS.

PLATE III of Order F.<sup>rd</sup>

8

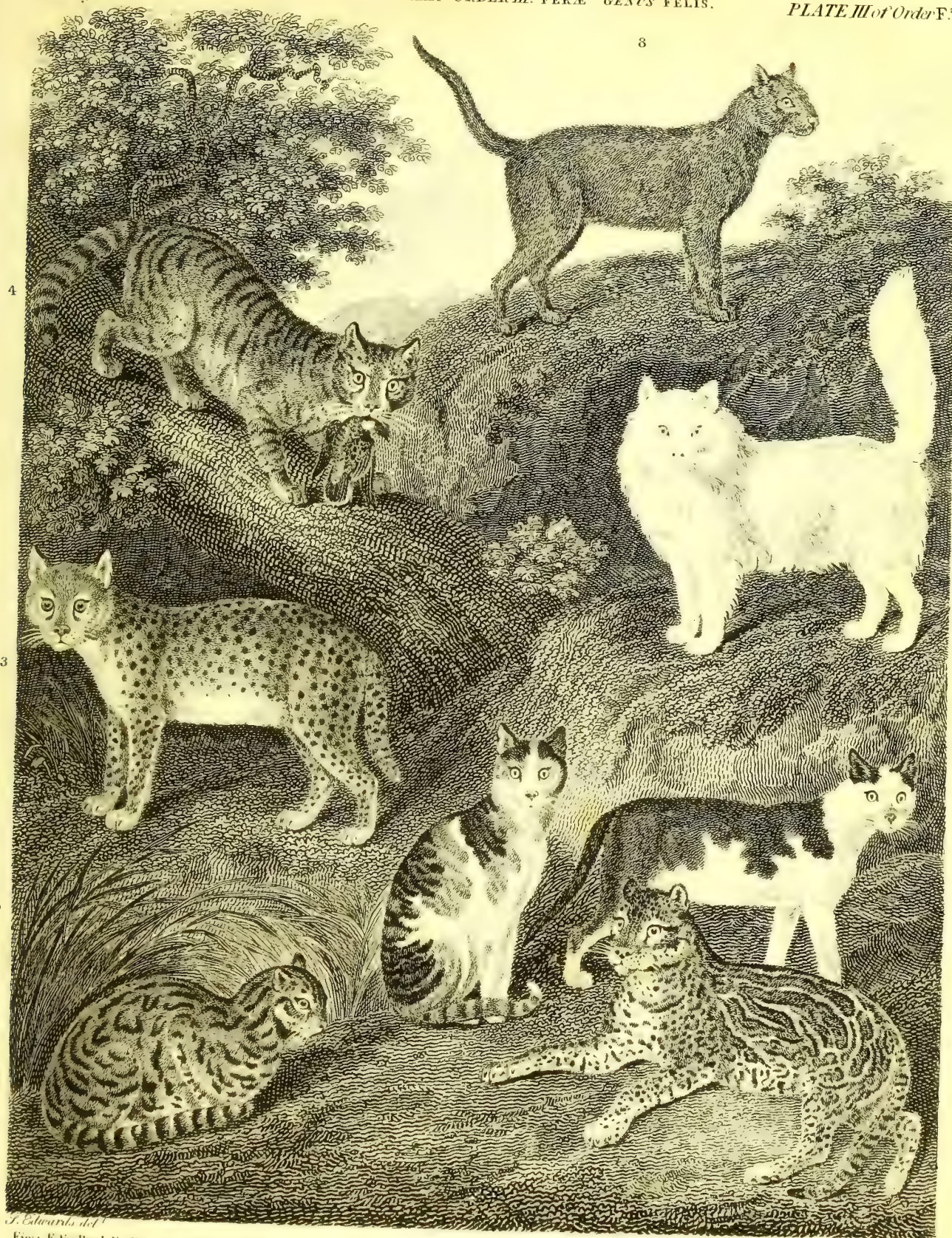


Fig. 1. Felis Pardalis, Ocelot. 2. Felis Tigrina, Margay. 3. Felis Serval, Serval. 4. Felis Catus, Wild Cat. 5. var. Domestic Cat. 6. var. Spanish or Tartaric Shell Cat. 7. var. Angora Cat. 8. var. Slate Coloured Cat, or Chartreux.

Published as the Act directs, Dec: 27<sup>th</sup> 1825, by Longman Hurst, Reece & Orme, Paternoster Row.







# QUADRUPEDS

ORDER. FERE. GENUS VIVERRA.



1 V: Zibetha, Zibet. 2 V: Fofsa, Fofkane. 3 V: Ichneumon, Ichneumon.  
 4 V: Nasua, Brasilian. Weasel. 5 V: Civetta, Civet.







QUADRUPEDS.  
CLASS MAMMALIA. ORDER FERE. GENUS MUSTELA.



1. M. Lutris. Sea Otter. 2. M. Lutra. Otter. 3. M. Foina. Marten. 4. M. Zibellina. Sable.

Published by J. H. Smith, 101, Broadway, New York.







# QUADRUPEDS.

CLASS MAMMALIA. ORDER FERÆ GENUS URSUS.



1. U. Americanus, American Bear. 2. U. Maritimus, Polar Bear. 3. U. Gulo, Glutton. 4. U. Meles, Badger.







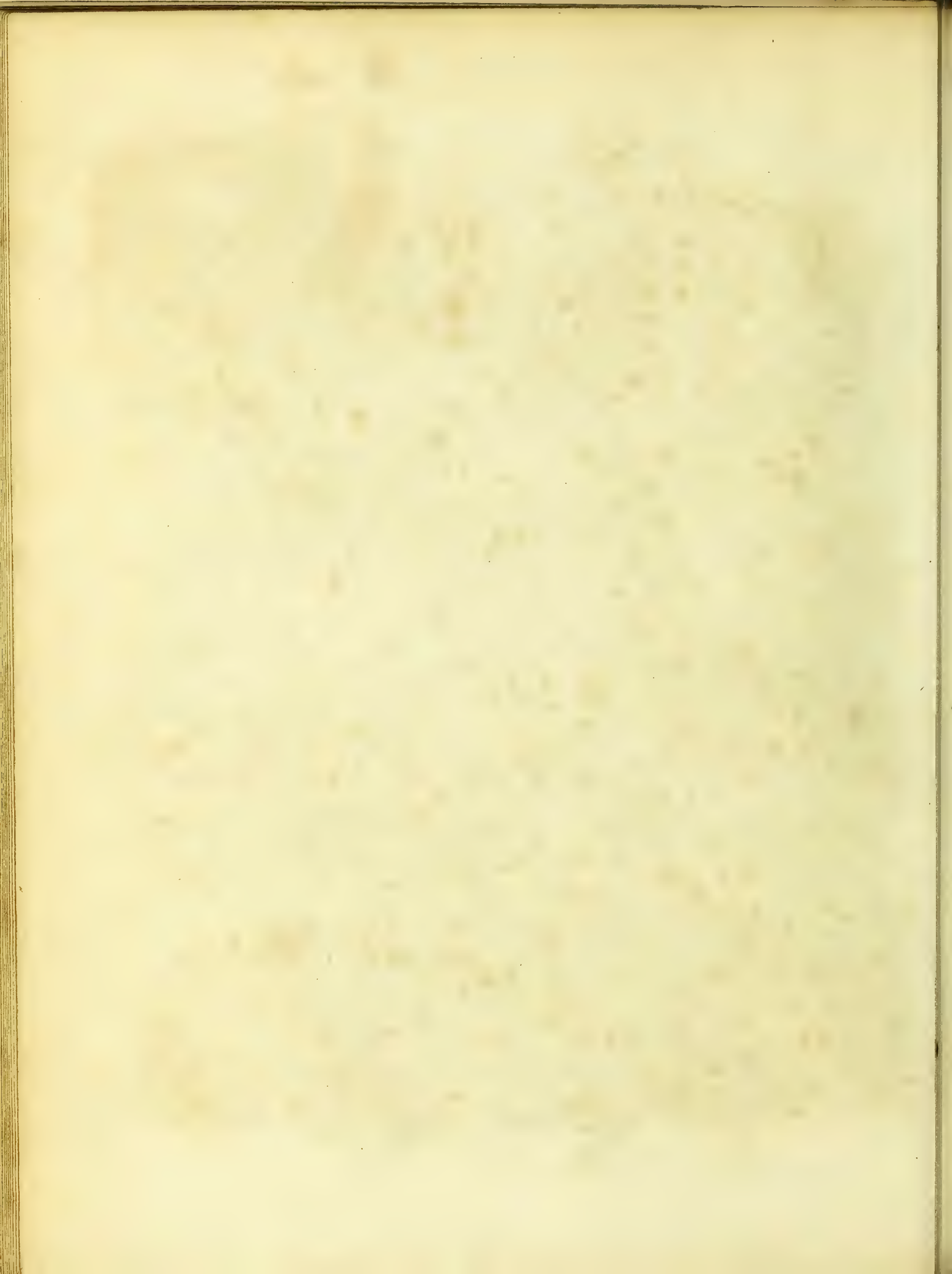
## QUADRUPEDS.

GENUS DIDELPHIS. OPOSSUM. GENUS MACROPUS. KANGUROO.



1—D. Virginiana Virginian O. — 2 D. Petaturus Petaturine O. — 3 D. Murina Murine O. — 4 D. Gigantea Great K. a. Mas. b. Fem.

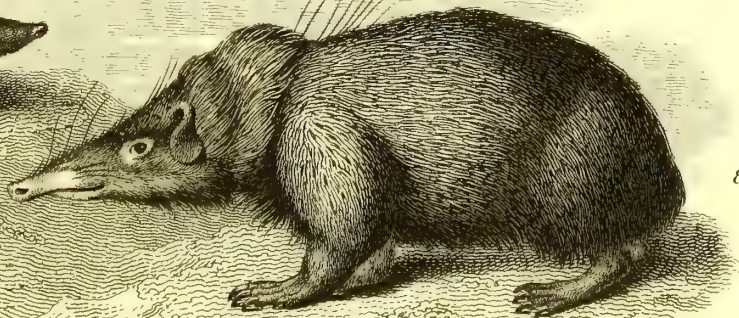
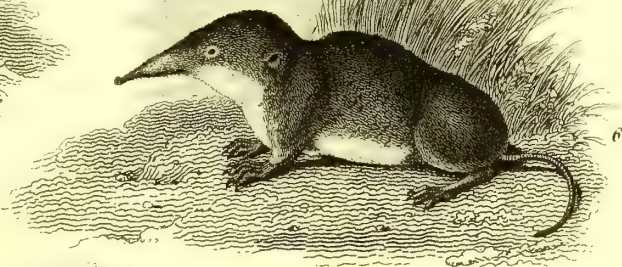
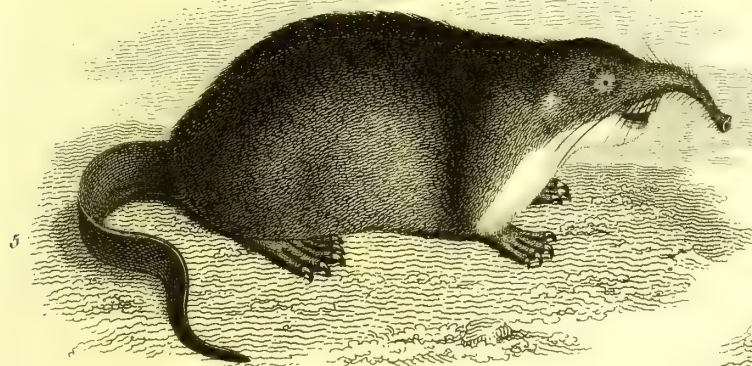
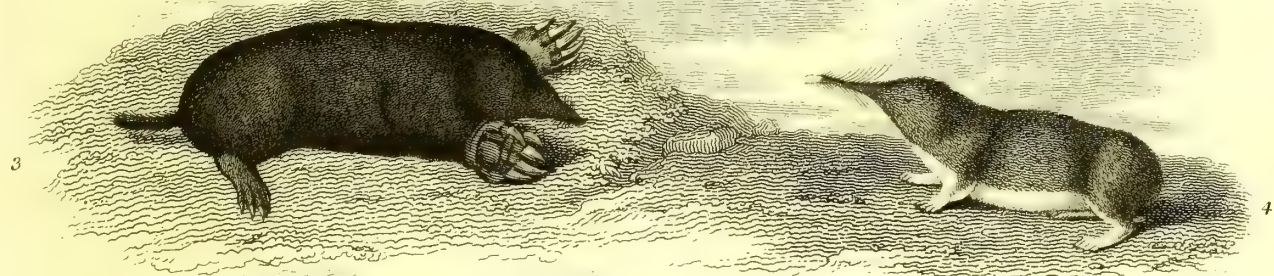
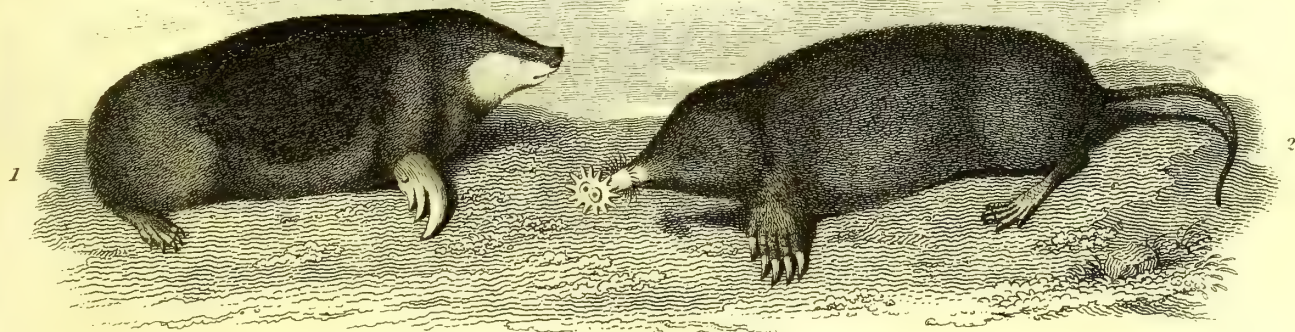






# QUADRUPEDS.

MAMMALIA. ORDER FERÆ. GENUS TALPA. MOLE. GENUS SOREX. SHREW. GENUS ERINACEUS. HEDGE-HOG.



1. T. Capensis, Cape M. 2. T. Longicaudata, Long-tailed M. 3. T. Europæa, Common M. 4. Sorex Minutus, Minute S. 5. S. Moschatus, Musky S.  
6. S. Araneus, Foetid S. 7. E. Europæus, Common H. 8. E. Ecaudatus, Madagascar H.







# QUADRUPEDS

CLASS MAMMALIA. ORDER GLIRES. GENUS HYSTRIX. GENUS CAVIA.



1. Hystrix Cristata, Common or Crested Porcupine. 2. H. Prehensilis, Brazilian Porcupine. 3. H. Dorsata, Canadian Porcupine (White var)  
 4. Cavia Aguti, Long-nosed Cavy. 5. C. Magellanica, Patagonian Cavy. 6. C. Paca, Spotted Cavy.

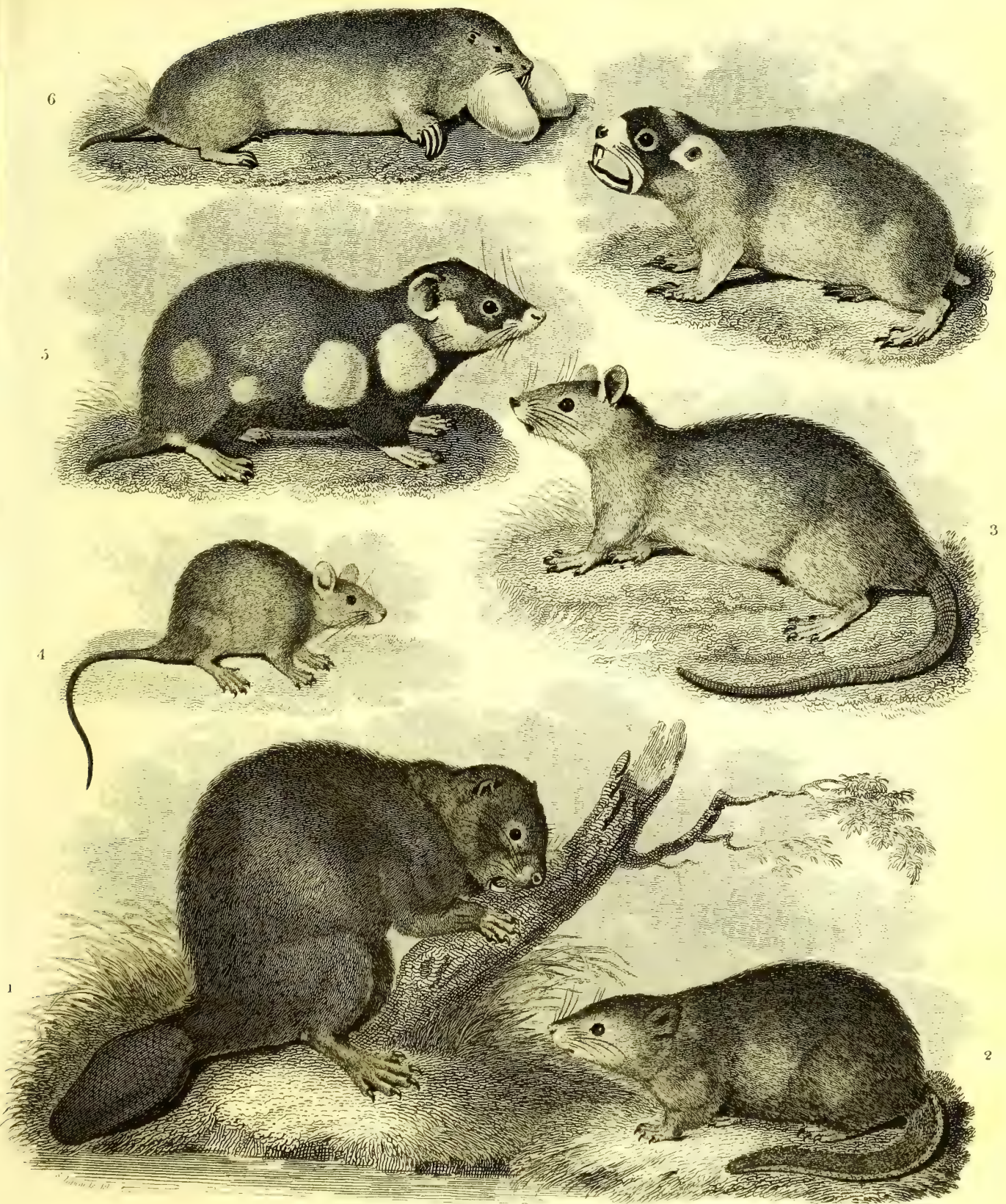






# QUADRUPEDS.

CLASS. MAMMALIA. ORDER GLIRES. GENUS CASTOR. BEAVER. GENUS MUS. RAT.



1. C. Fiber, Beaver. 2. M. Zibethicus, Musk R. 3. M. Decumanus, Norway R.  
4. M. Musculus, Common Mouse. 5. M. Cricetus, German Hamster R.  
6. M. Bursarius, Canada R. 7. M. Capensis, Cape Mole R.

Published as the Act directs by the Author, London, 1793.







# QUADRUPEDS.

CLASS MAMMALIA, ORDER GLIRES, GENUS ARCTOMYS, MARMOT, GENUS SCIURUS, SQUIRREL, GENUS MYOXUS, DORMOUSE.

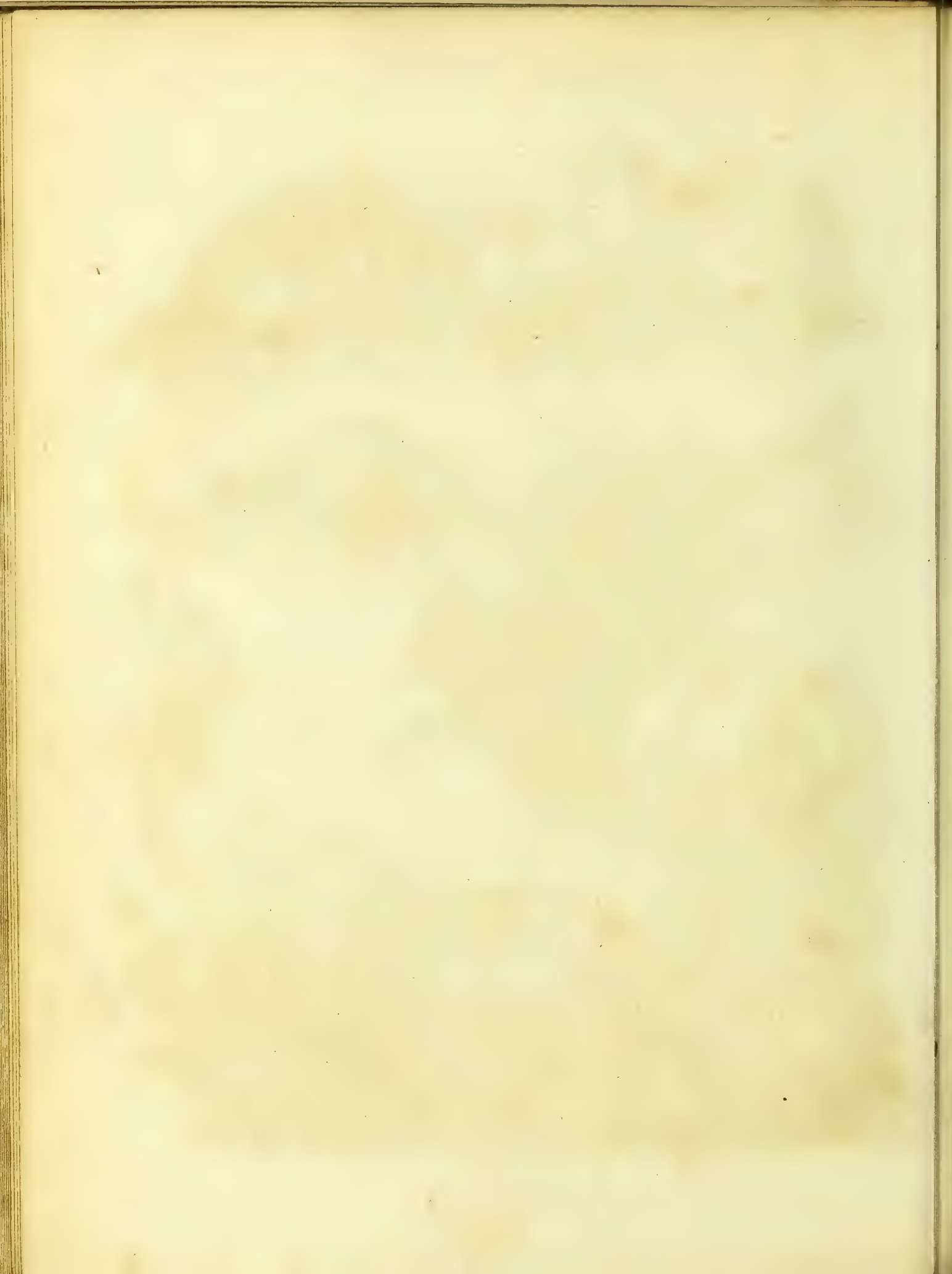
Linn Syst.



1. A. Citillus, Variegated M. 2. A. Empetra, Canadian M. 3. S. Petaurista, Tagian or Sailing S.  
4. S. Getulus Barbary S. 5. S. Vulgaris, Common S. 6. M. Muscardinus, Common D.

*Engraved by J. G. Thompson. Coloured by J. G. Thompson. Printed by J. G. Thompson.*







# QUADRUPEDS.

CLASS MAMMALIA. ORDER GLIRES. GENUS DIPUS. JERBOA. GENUS LEPUS. HARE. GENUS HYRAX.

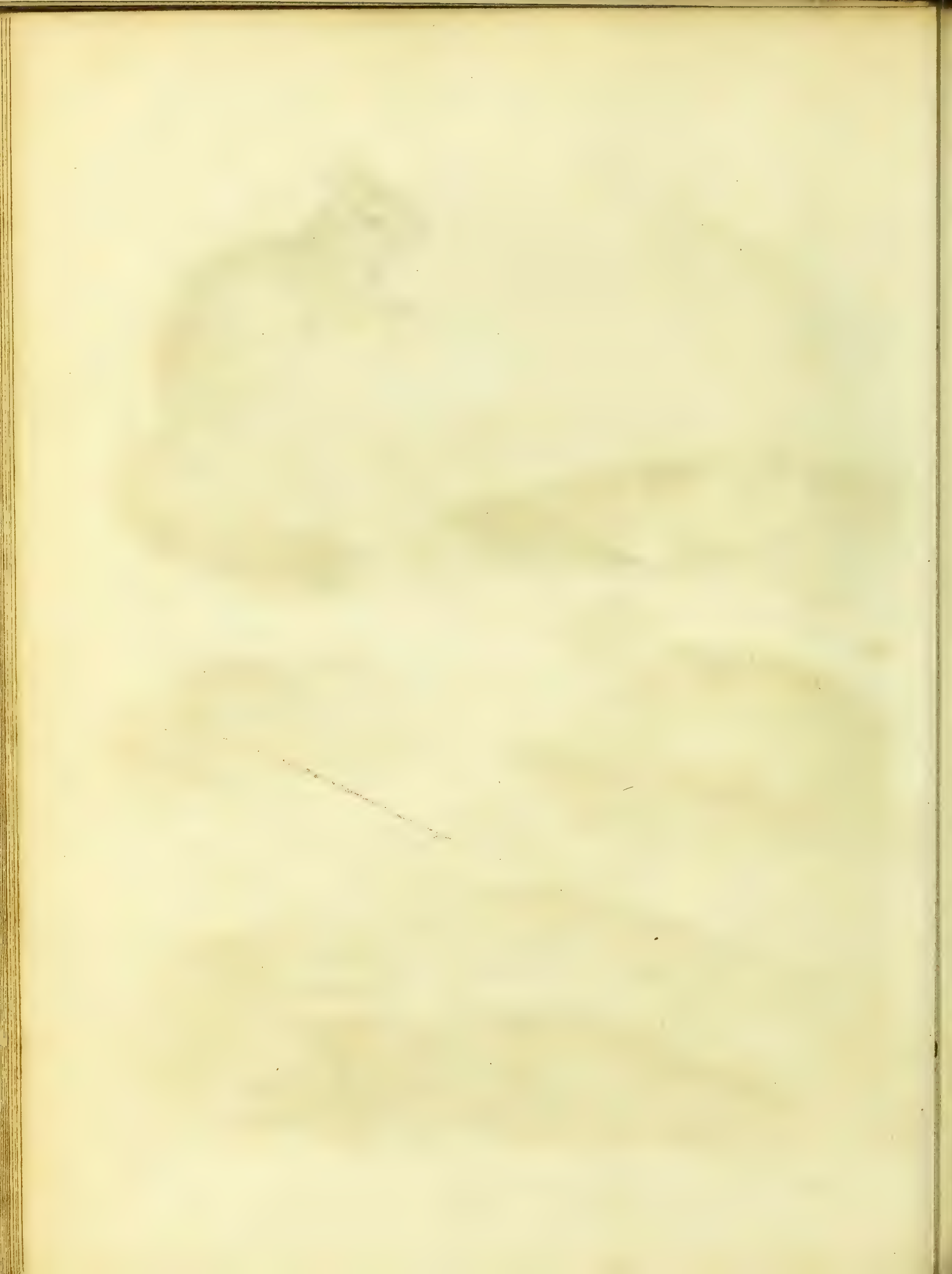
2

1



1. *Dipus Jaculus* Alagtaga. 2. *D. Sagitta* Arabian I. 3 *D. Cafer* Cape I.  
4. *Lepus Timidus* Common Hare. 5 *L. Alpinus* Alpine H. 6. *Hyrax* Capensis Cape Hyrax.







QUADRUPEDS.  
MAMMALIA ORDER. PECORA GENUS. CAMELUS.



1. *Camelus Dromedarius*. Arabian Camel, or Dromedary. 2. *Camelus Bactrianus*. Bactrian Camel.







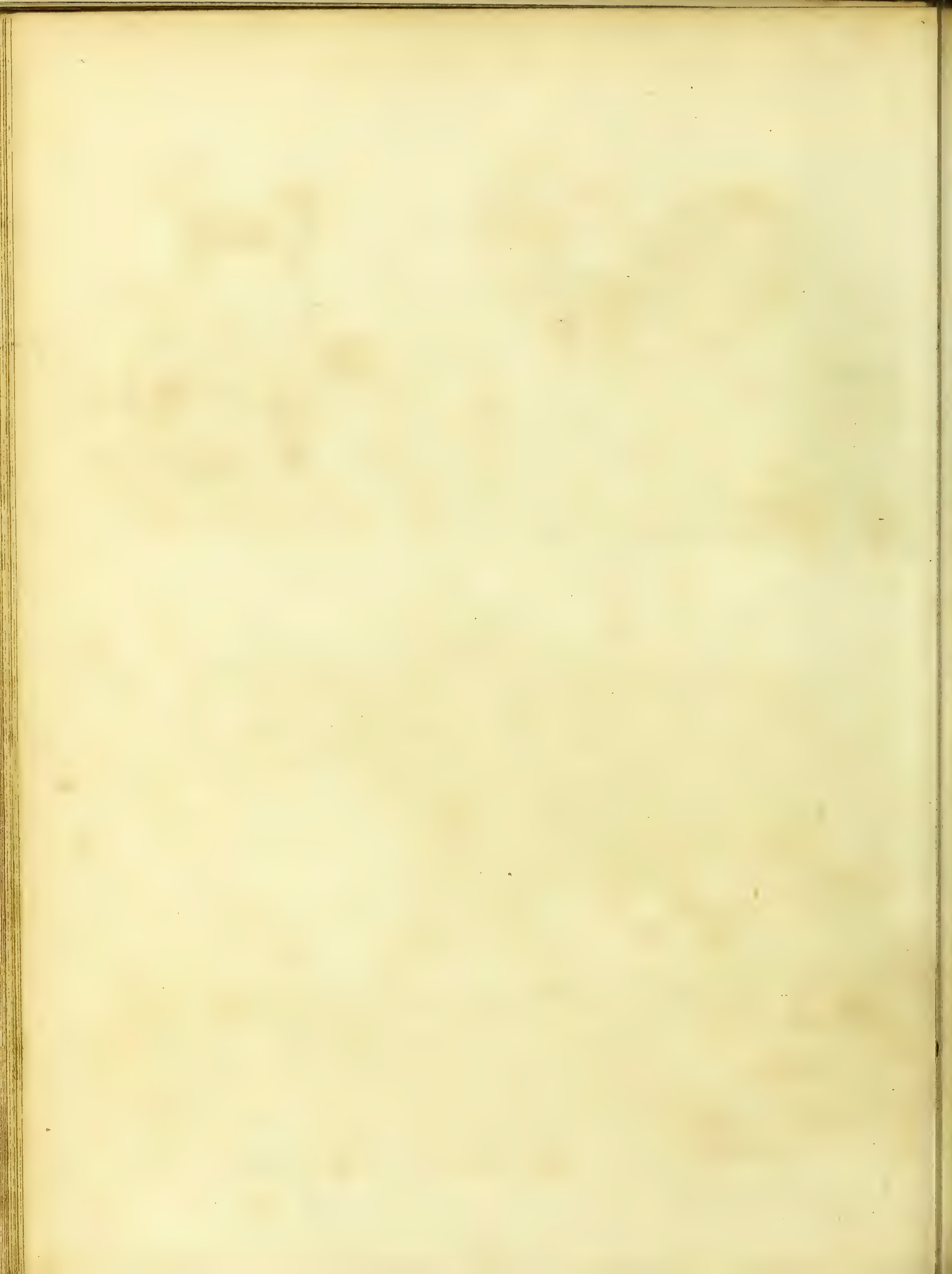
QUADRUPLES

CLASS MAMMALIA. GENUS MOSCHUS MUSK. GENUS CERVUS DEER.



1. *Moschus Moschiferus*, Thibet Musk. 2. *Mospygmaeus*, Guinea M. 3. *M. Javanicus*, Java M. 4. *Cervus Alces*, Elk.







QUADRUPEDS.  
MAMMALIA GENUS CERVUS GENUS CAMELOPARDALIS.



1, C. Tarandus Rein Deer — 2, C. Elaphus Stag Hart or Red Deer — 3, C. Axis Spotted Axis — 4, Camelopardalis Giraffa Camelopard.





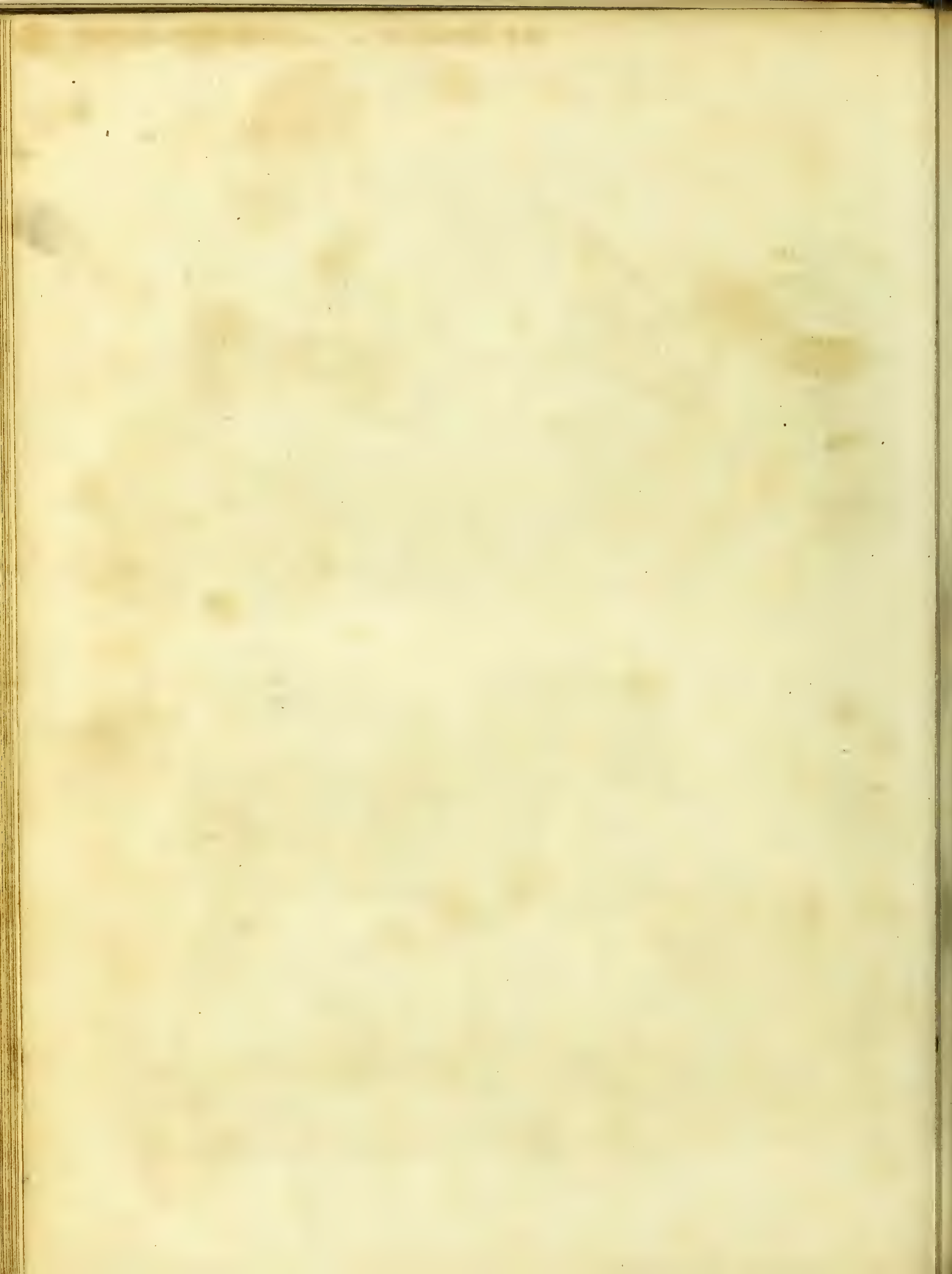


QUADRUPEDS.  
CLASS MAMMALIA. GENUS ANTILOPE. ANTELOPE.



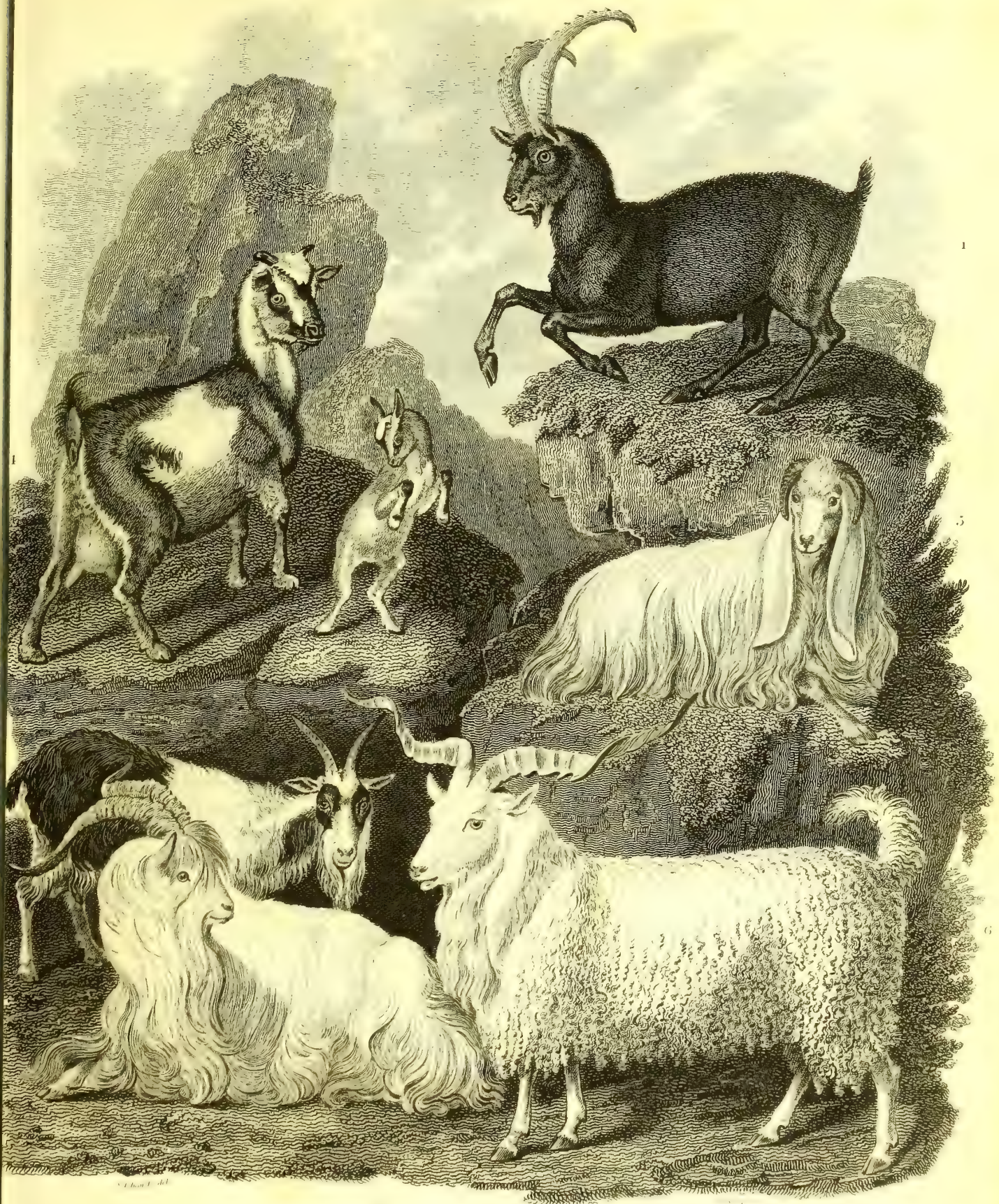
1. A. Rupicapra Chamois A. — 2. A. Cervicapra Common A. — 3. A. Pygmaea Royal A. — 4. A. Cimmea Guinea A. — 5. A. Gnu. Gnu A







QUADRUPEDS.  
MAMMALIA GENUS CAPRA. GOAT.



1. C. Ibex. Ibex Goat. 2. 3. C. Agagrus Common British Mountain Goat.  
4. Common Domesticated Goat. 5. Syrian Goat. 6. Angora Goat.







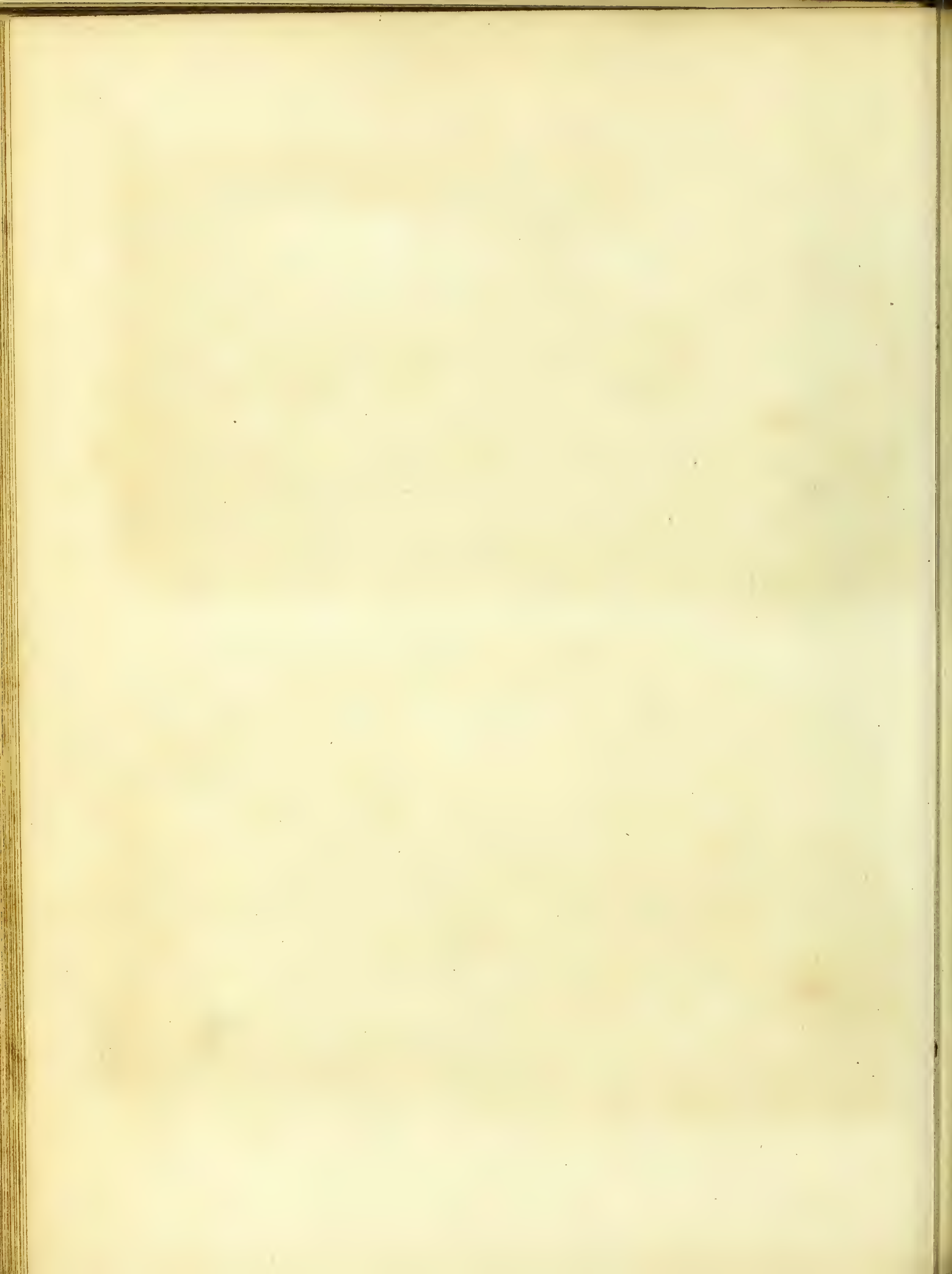
QUADRUPEDS.  
OVIS ARIES. COMMON SHEEP.



South Down Polled Sheep of the improved breeds. From the Stock of the late Duke of Bedford, Woburn

*Published by J. G. & J. W. Smith, 10, Pall Mall, London. Price 1s. 6d. per Volume.*







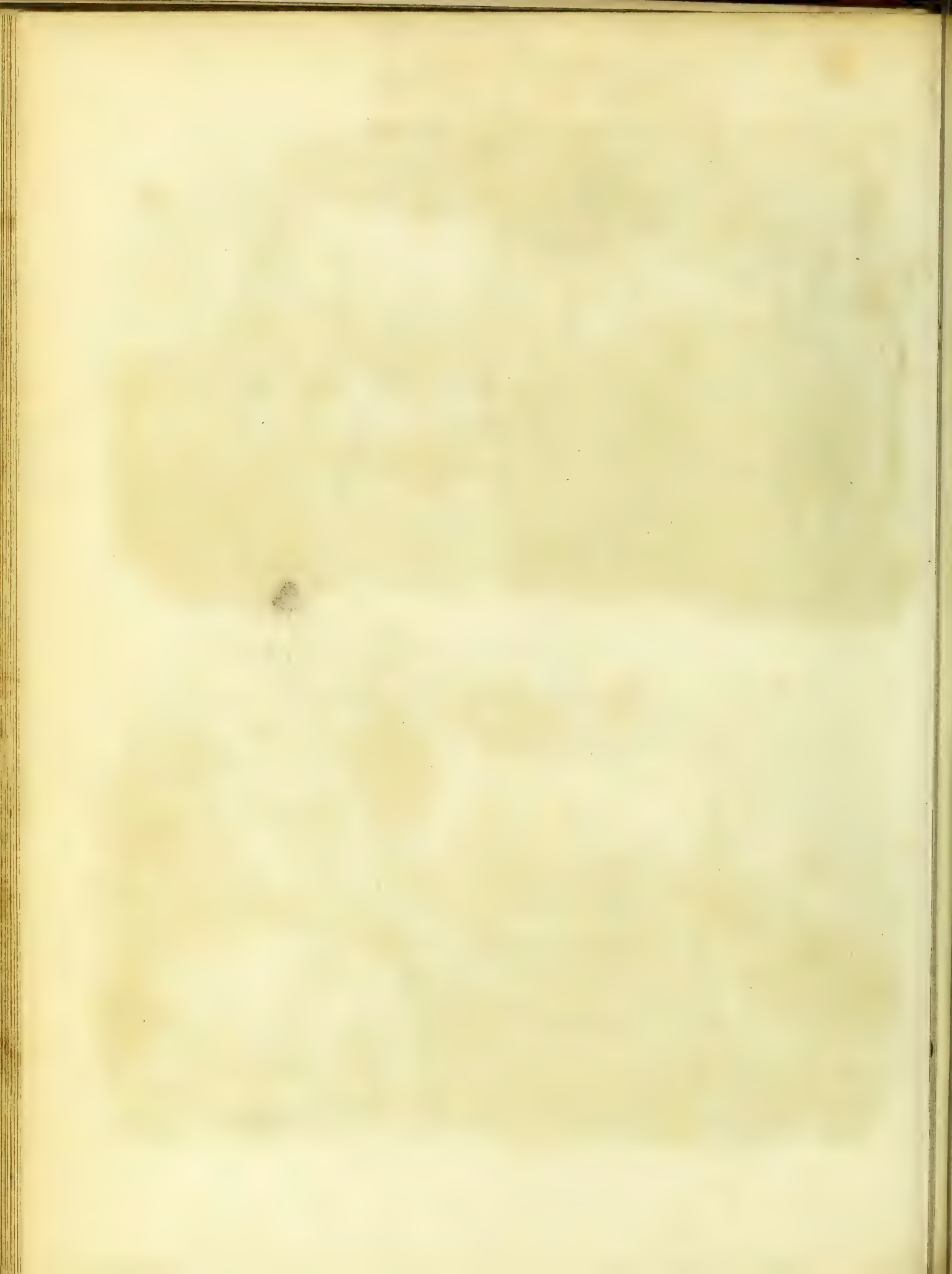
# QUADRUPEDS.

GENUS OVIS. SHEEP VAR. HORNED SHEEP.



1. Norfolk Breed. 2. Hertfordshire Breed.

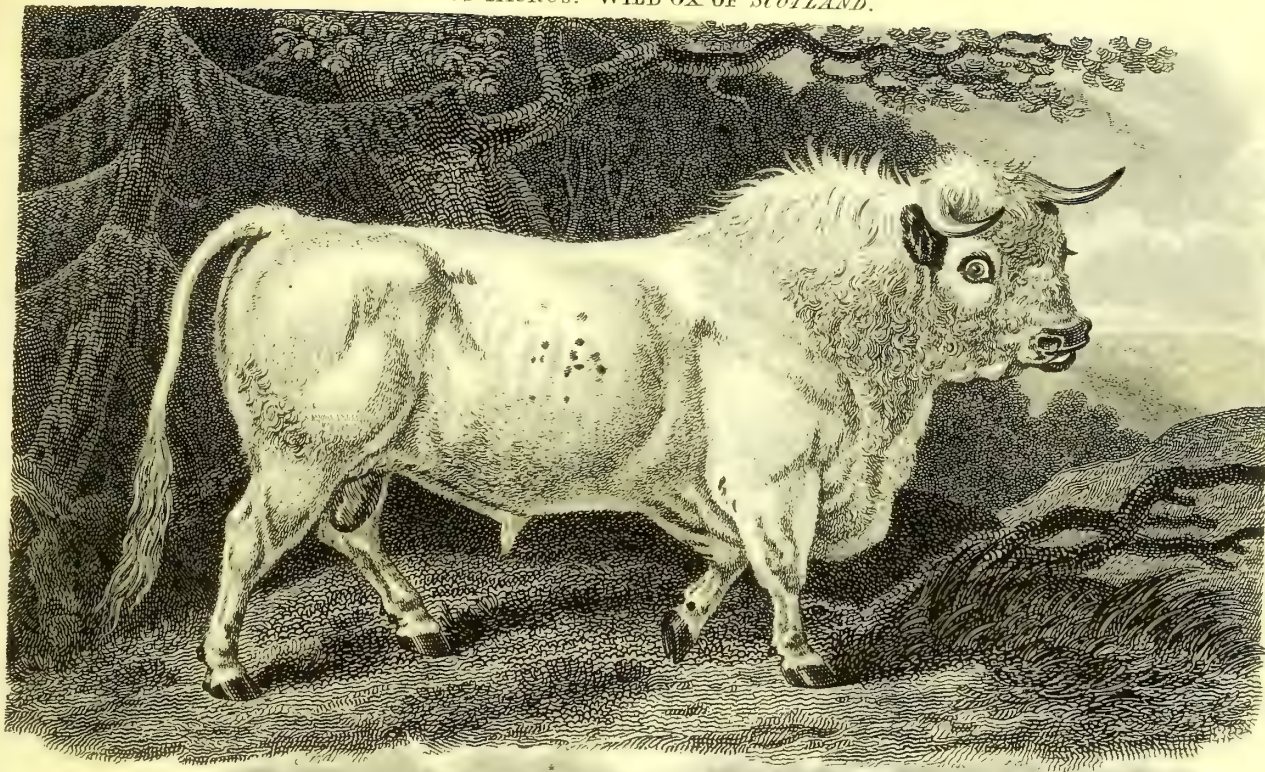






# QUADRUPEDS

BOS TAURUS. WILD OX OF SCOTLAND.



1. The Bull. 2. The Cow and Calf

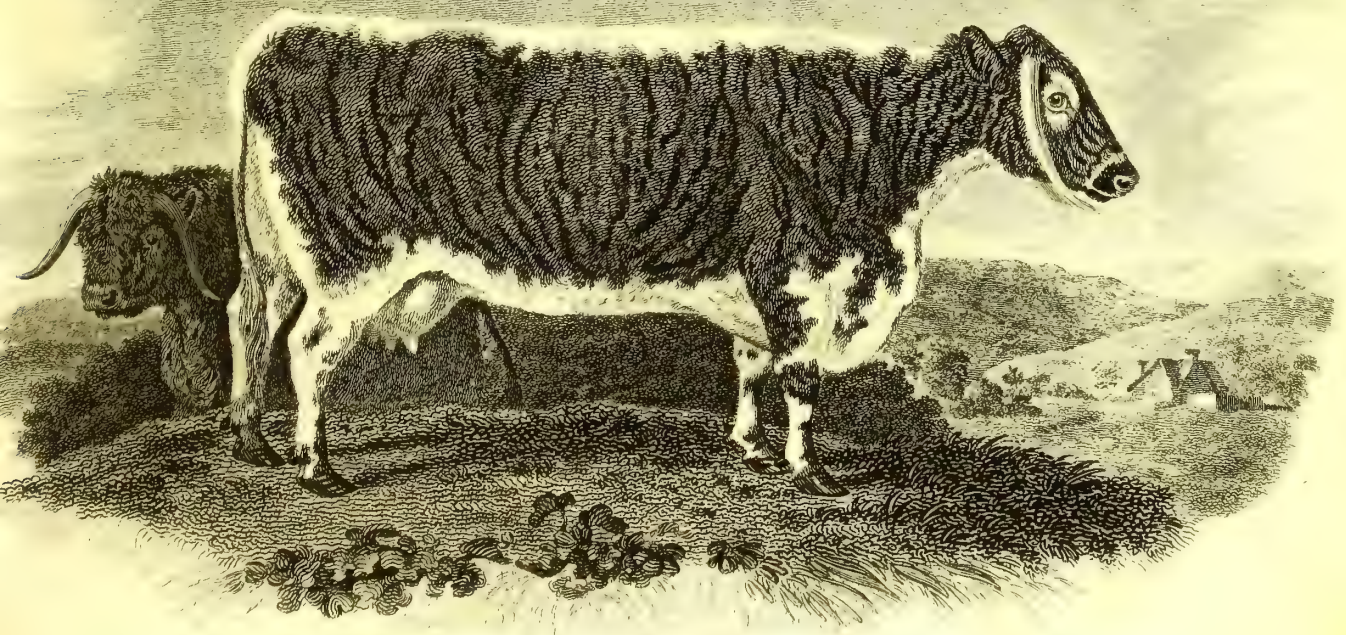
Published by the first directors April 10, 1807.







QUADRUPEDS  
BOS TAURUS. OXEN.



Long Horned or Lancashire Breed.

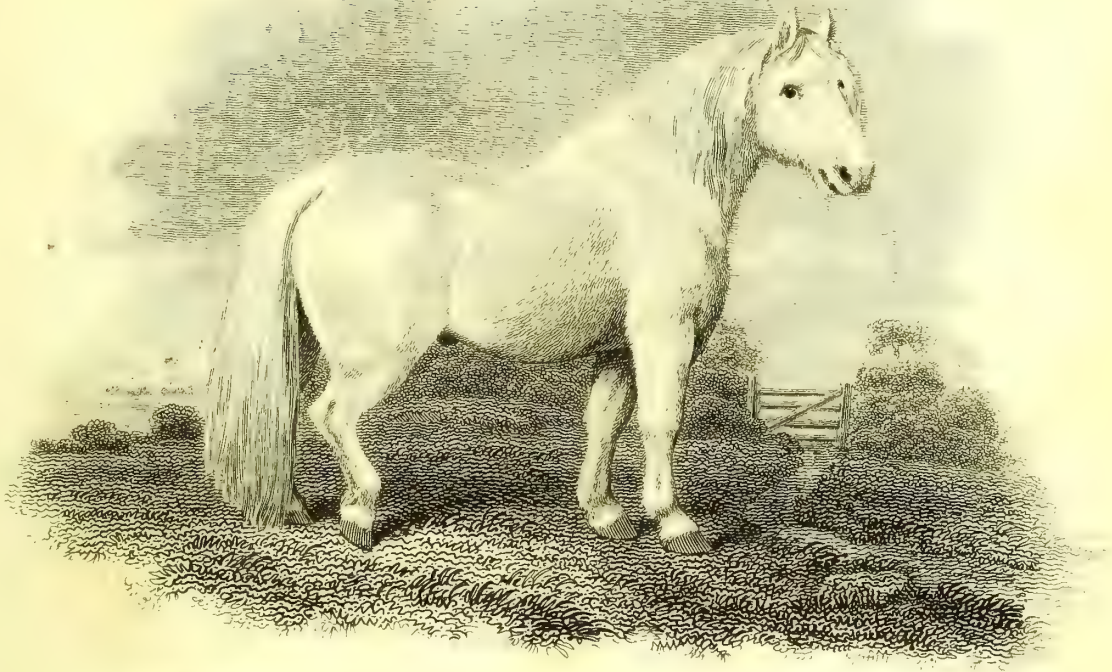




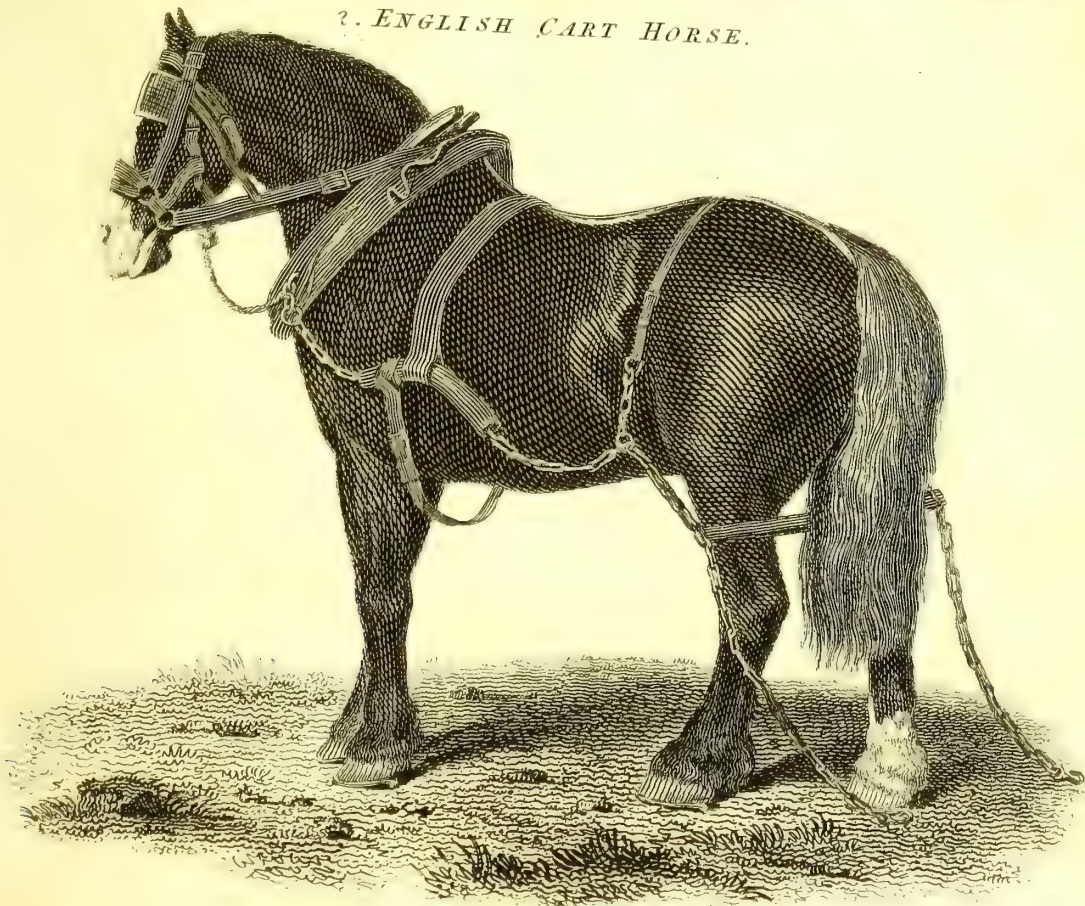


HORSES.  
1. SHETLAND PONEY.

PLATE I.



2. ENGLISH CART HORSE.





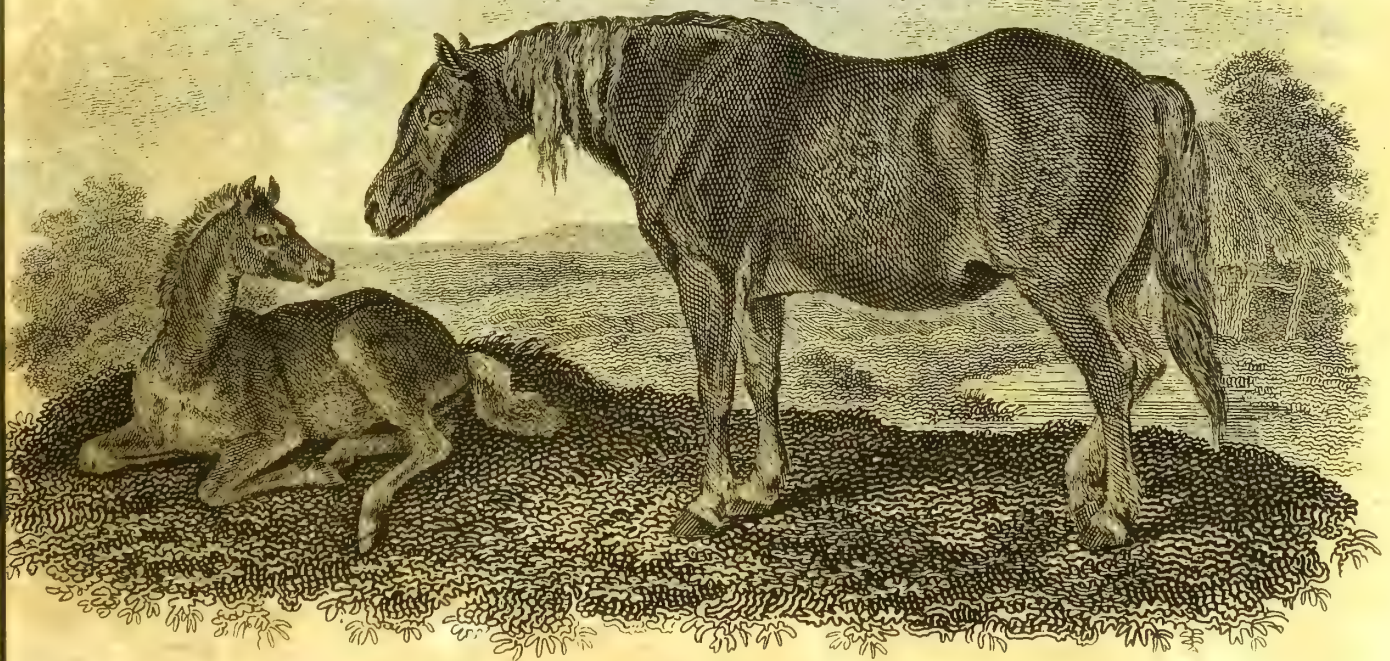
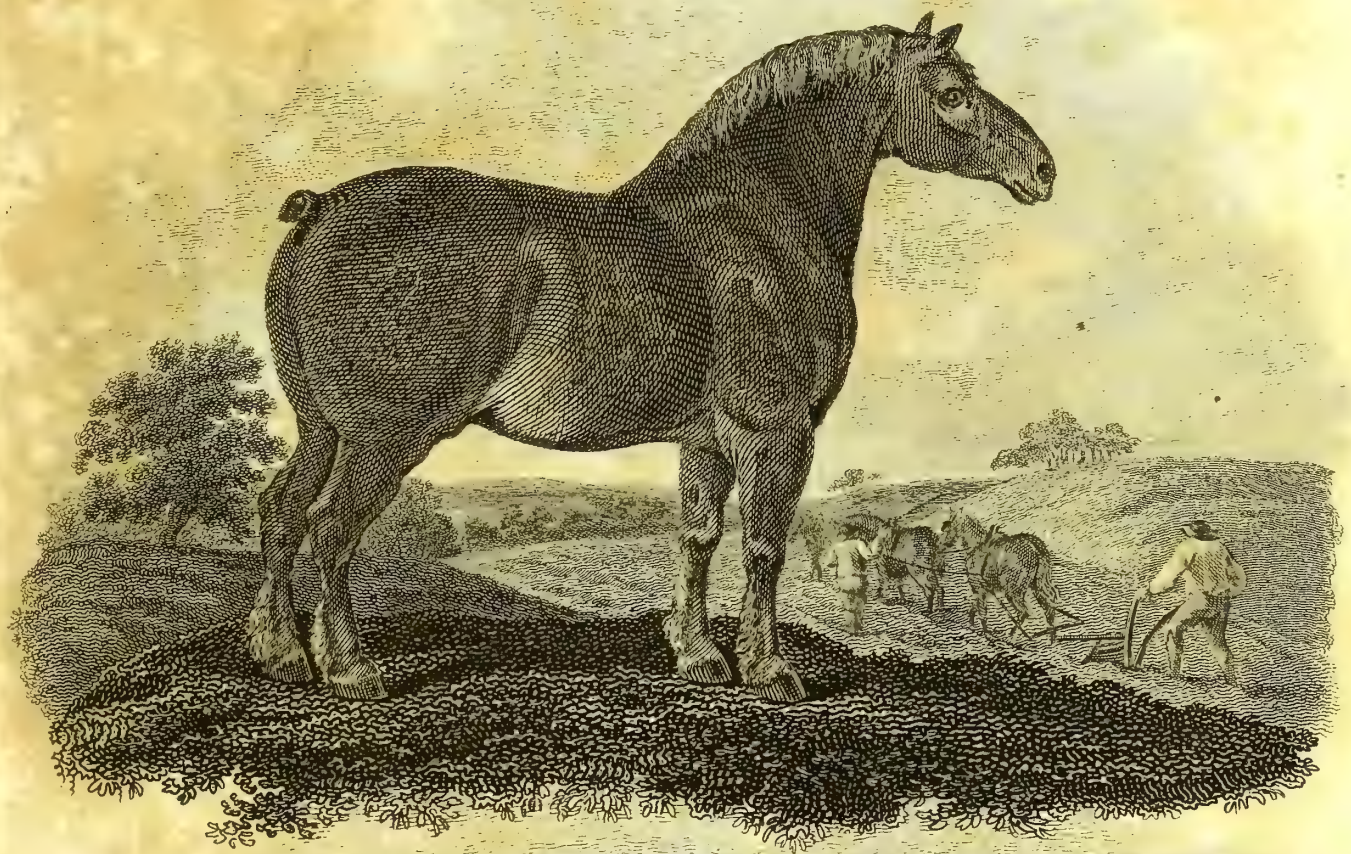




QUADRUPEDS.

Class 1<sup>st</sup> Mammalia.—Order VI Belluæ.—Genus 33. Equus.

*SUFFOLK AGRICULTURAL PUNCH HORSE.*



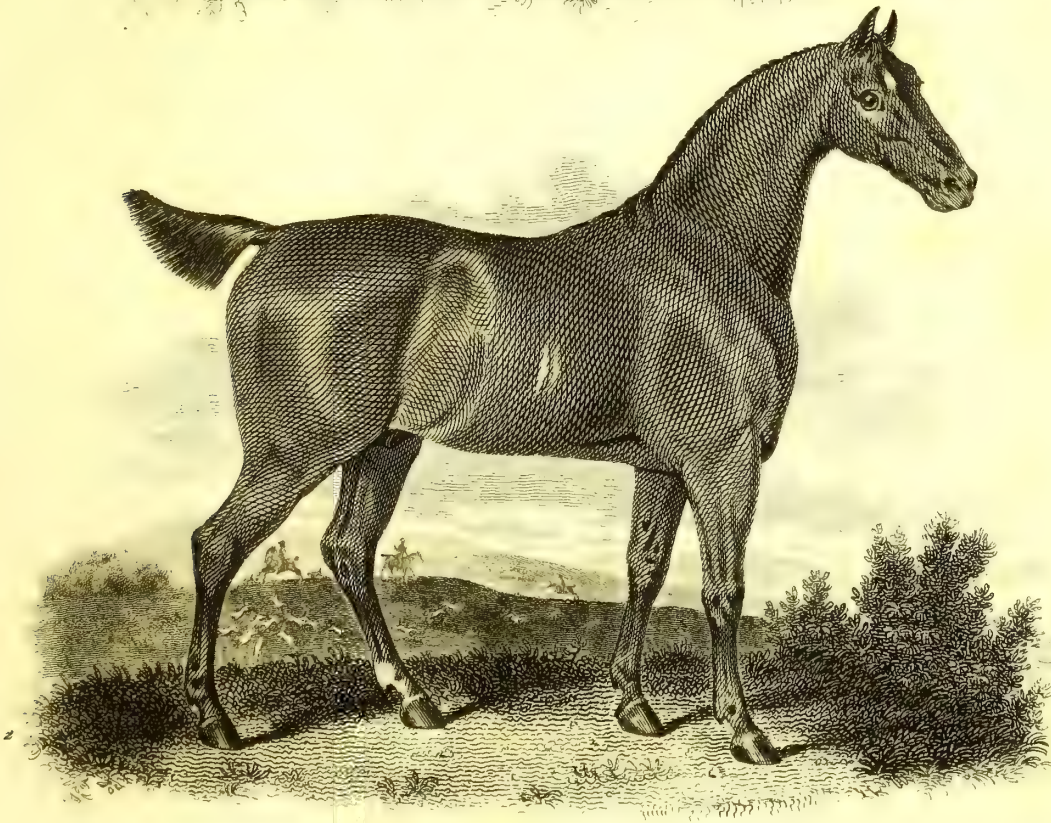
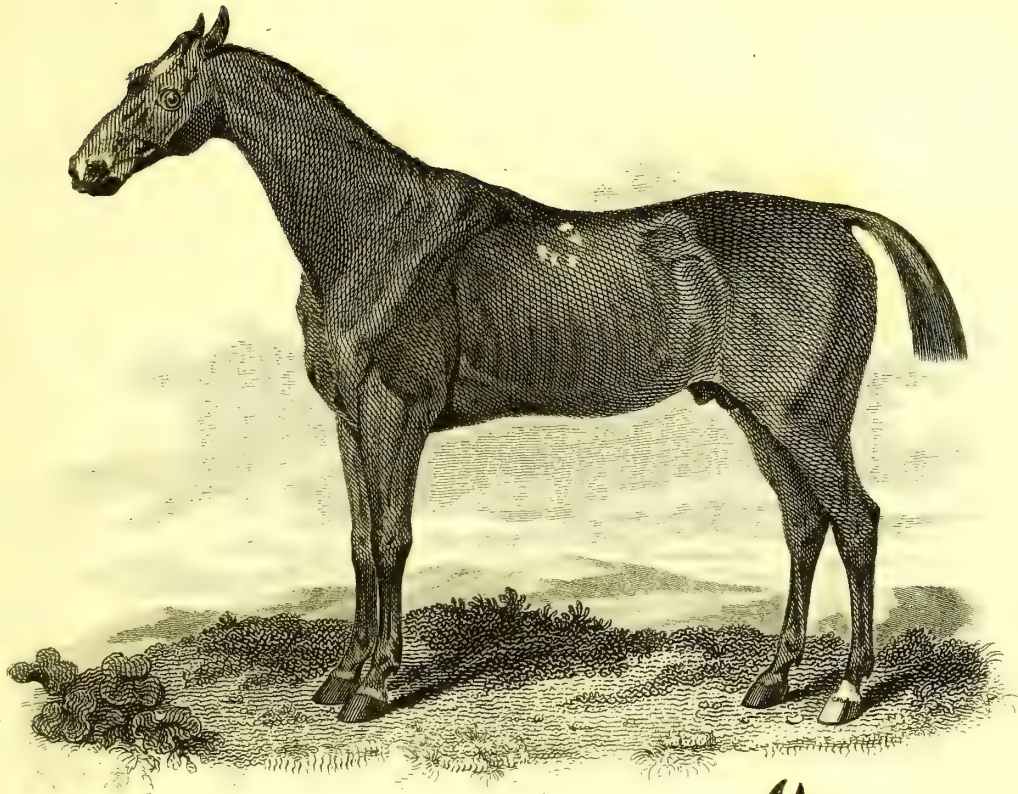
*Suffolk Mare & Foal, from the Stock of the late Duke of Bedford.*







QUADRUPEDS.  
GENUS EQUUS. HORSE.



1. Race Horse Royalist. 2. The Hunter Skylark.

*Published as the Act directs Jan. 1800, by T. Agnew, Harst, Rice, & Orme, Paternoster Row.*







QUADRUPEDS.  
ORDER BELLUA. GENUS HIPPOPOTAMUS. GENUS TAPIR.



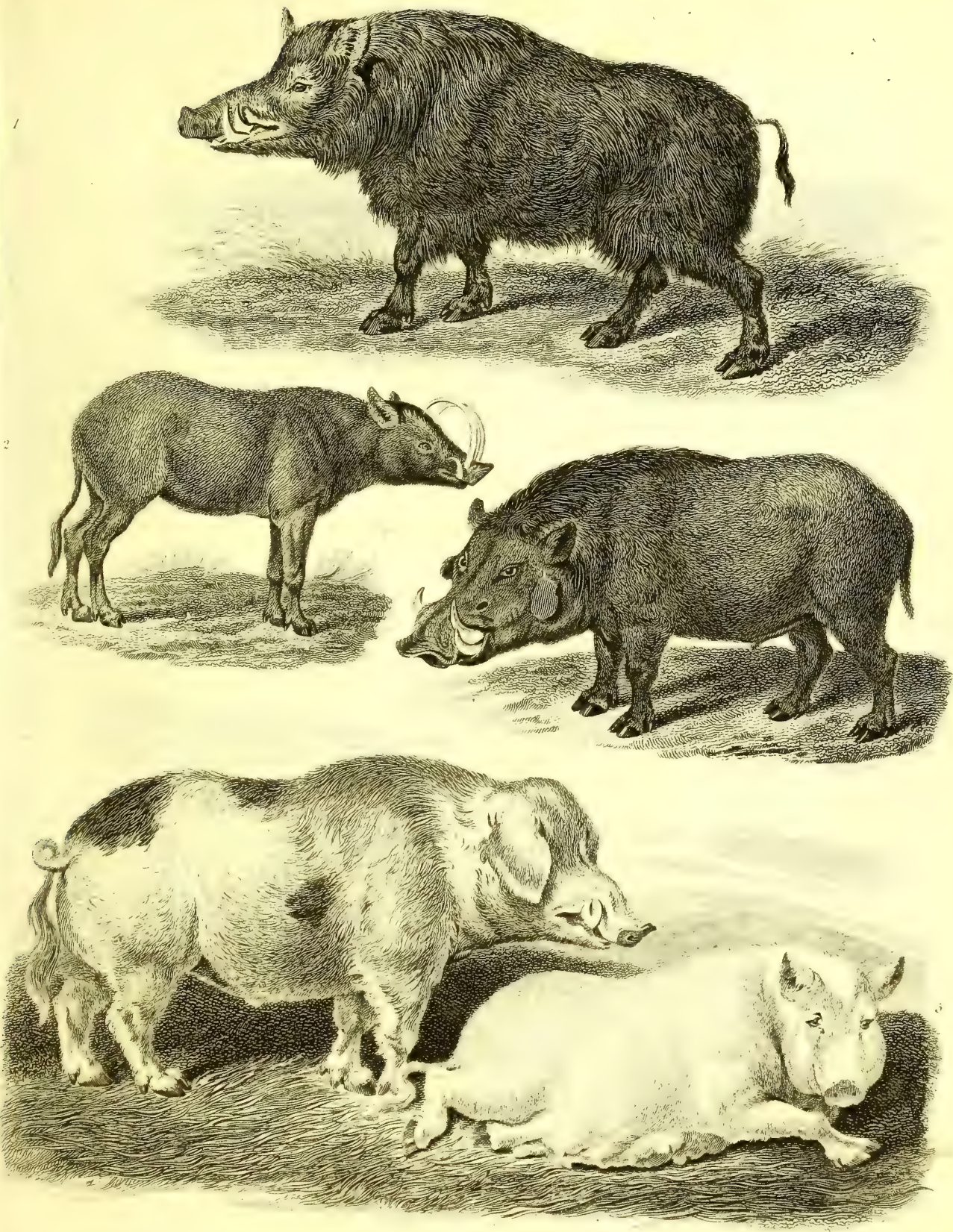
1. Hippopotamus Amphibius. Hippopotamus. 2. Tapir Americanus. Tapir.  
From an Original Drawing in the Collection of E. Woodford Esq.







QUADRUPEDS.  
CLASS MAMMALIA. ORDER BEII. LÆ. GENUS SUS. HOG.

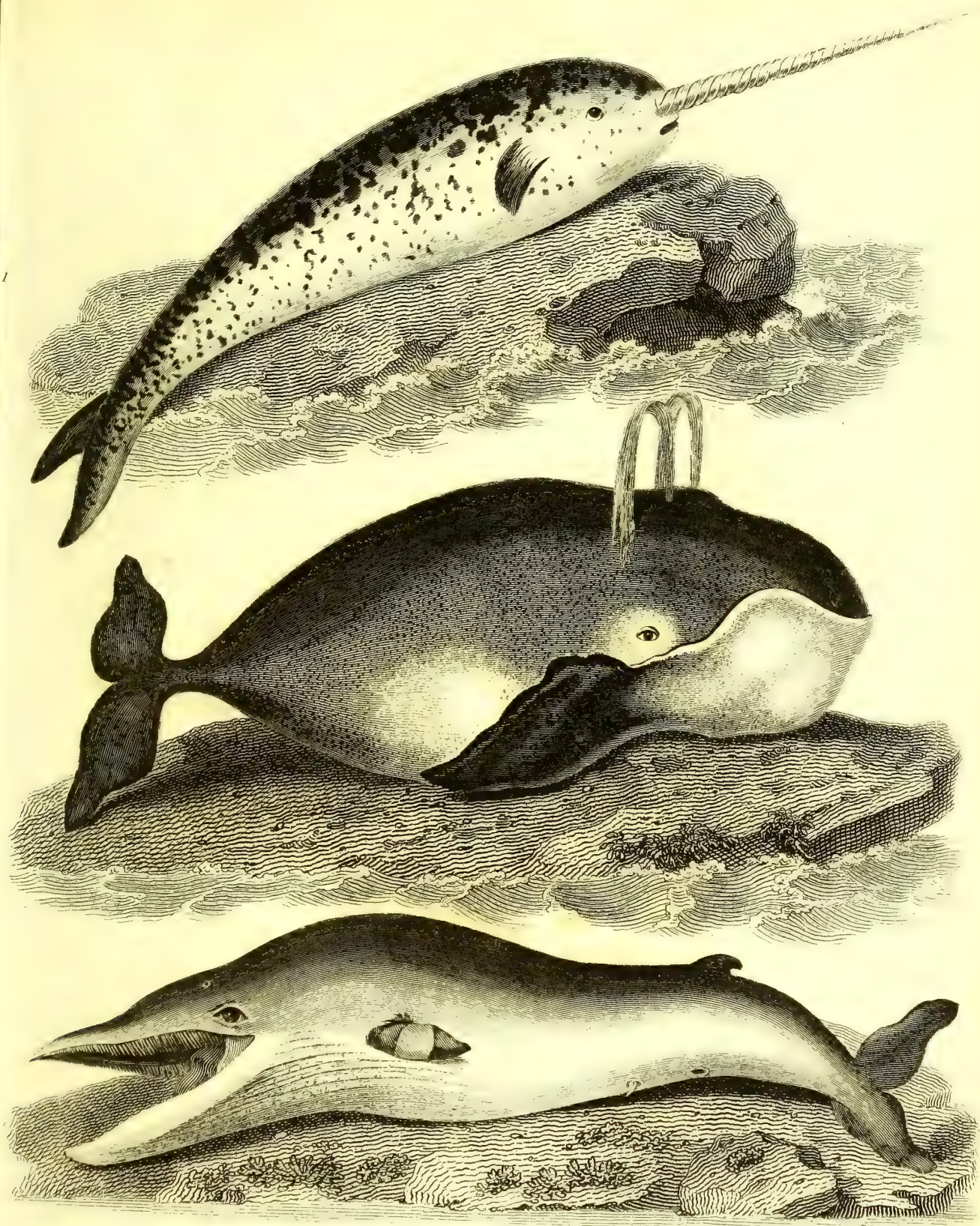


1. *S. Scrofa*, Wild. Hog. — 2. *S. Babyrufsa*, Babyrufsa. — 3. *S. Æthiopicus*, Æthiopian H. — 4, 5. Domestic H.









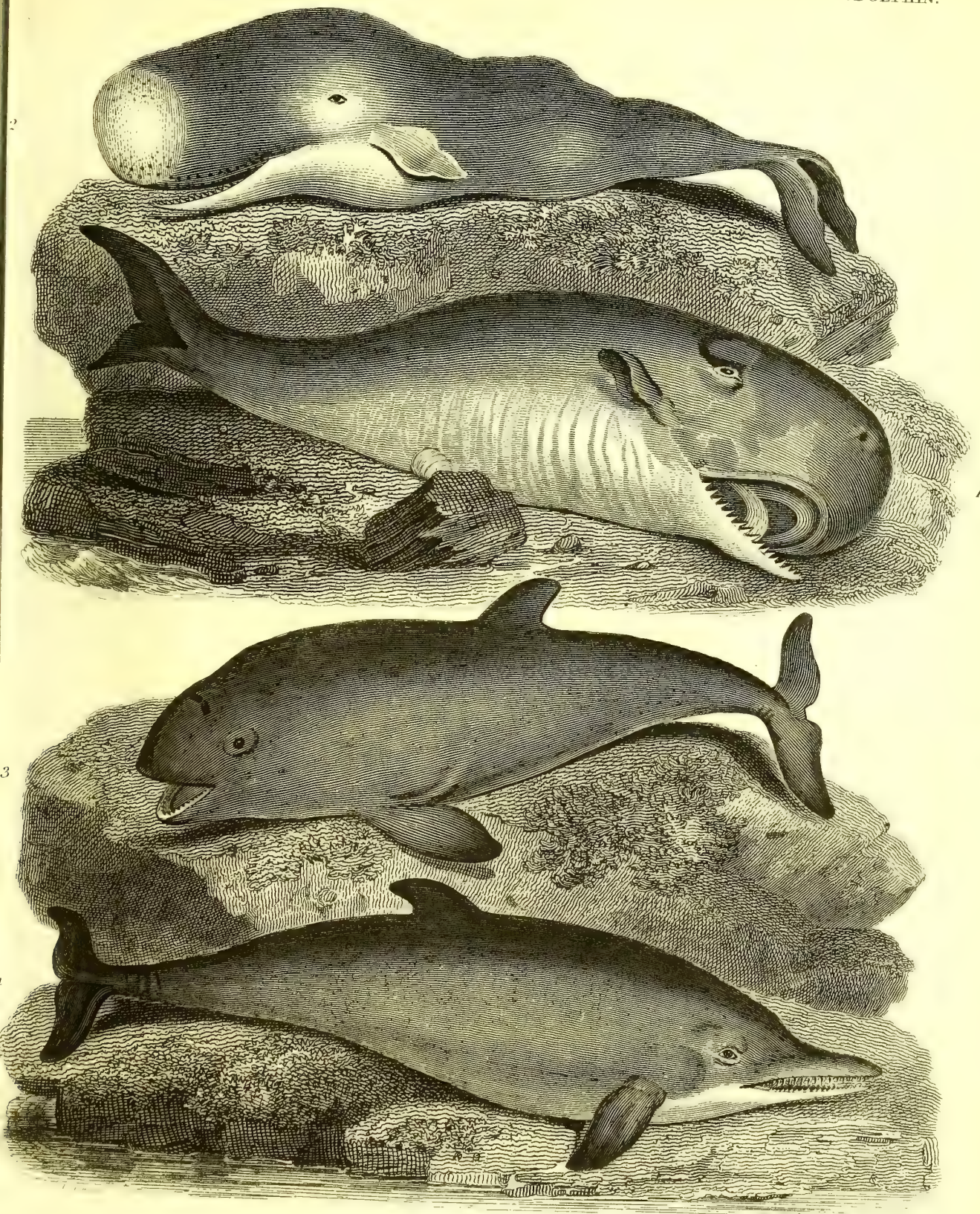
1. M. Monodon. 2. B. humpback Whale. 3. B. Boop. Pike-headed M.







CLASS MAMMALIA. ORDER CETE. GENUS PHYSETER. CACHALOT. GENUS DELPHINUS. DOLPHIN.



1. P. Macrocephalus. Blunt headed C. — 2. var P. Gibbosus Schreb. Gibbos C. — 3. D. Phocaena Porpoise. — 4. D. Delphis Dolphin.

Published by...







# ORNITHOLOGY.

Div.<sup>n</sup> 1<sup>st</sup> Land Birds.

Order 1<sup>st</sup> ACCIPITRES.

PLATE II.

GENUS I. Vulture.



Condor of Magellan.

GEN. II. Falcon.



Golden Eagle.

G. III. Strix.

G. II.



Falcon Gentil.



Horned Owl.



G. II.

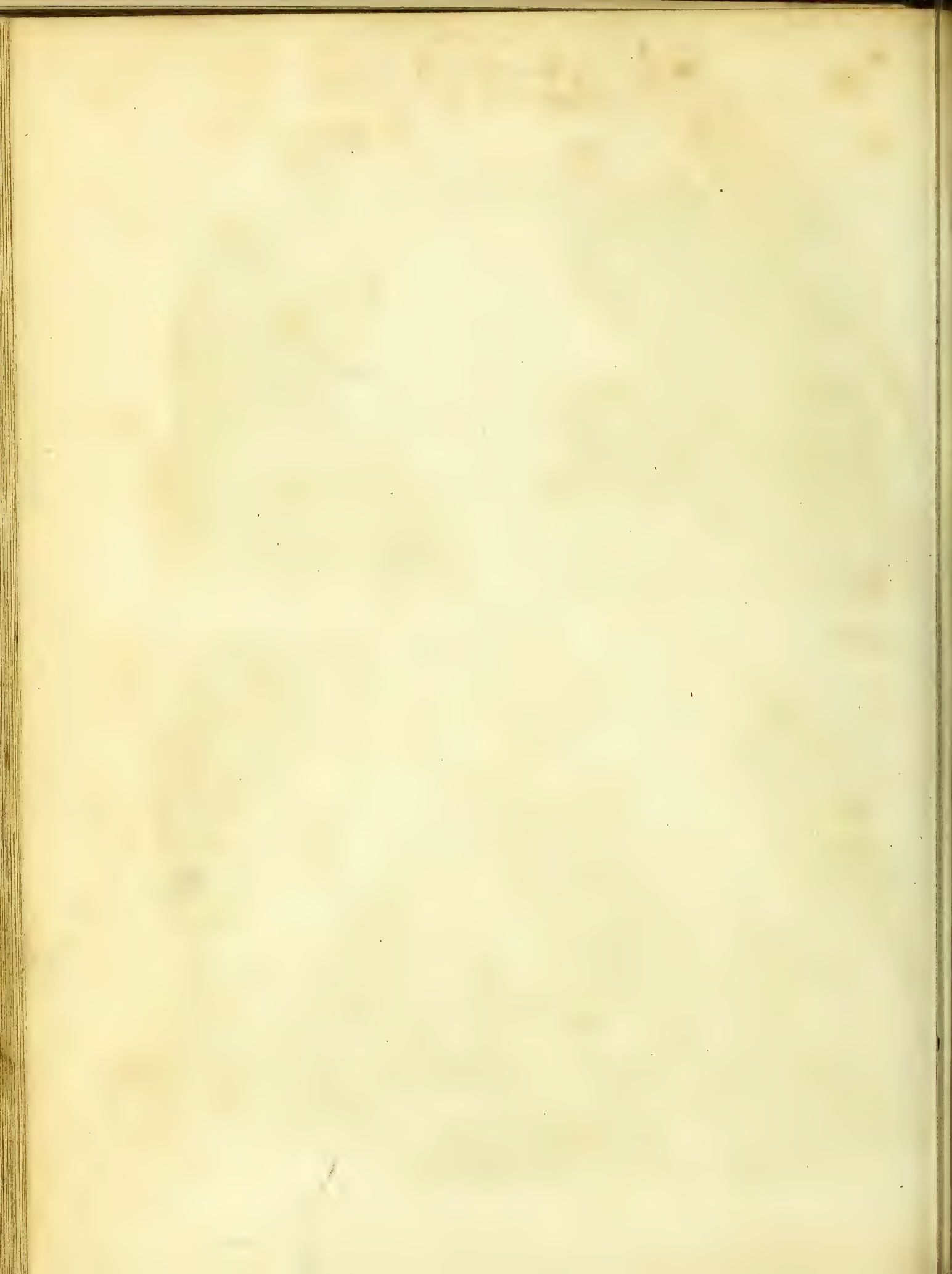


Hobby.



Small Owl.









GENUS PSITTACUS.

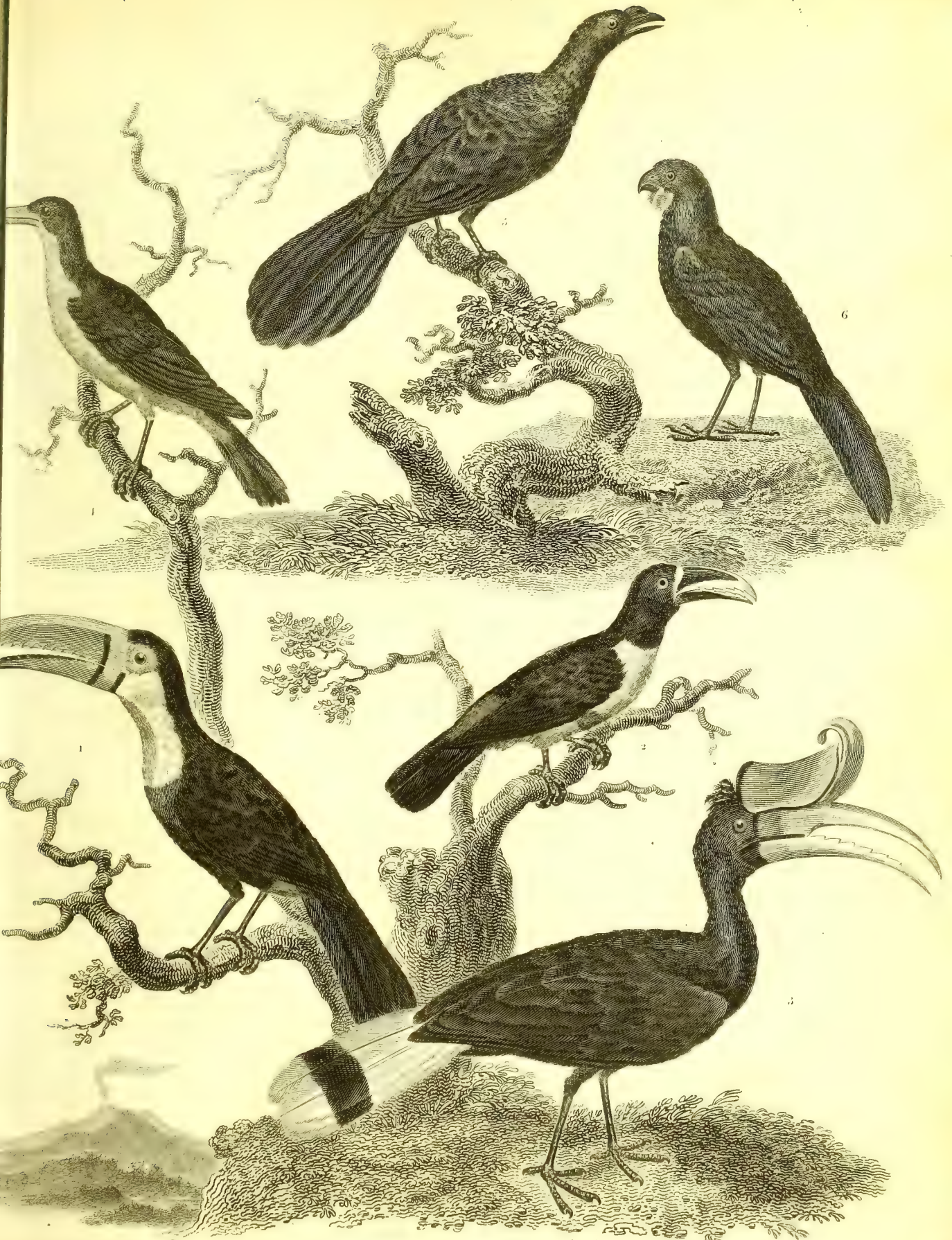
(Parrot)

1. *P. Macao* — 2. *P. Alexandri* — 3. *P. Estivus*, var — 4. *P. Garrulus*, var — 5. *P. Moluccensis* — 6. *P. Banksii* — 7. *P. Pullarius*.









GENUS RIMPHISTOS  
(Toucan)  
1. *R. Pictivorus* 2. *R. Aracani*.

G. BUCEROS  
(Hornbill)  
3. *B. Rhinoceros*.

G. BUPHLAGI  
(Beef Eater)  
4. *B. Africana*.

G. CROTOPHAGI  
(Ani Bird)  
5. *C. Major*.

G. GLAUCOPIS  
(Wattle Bird)  
6. *C. Cincerus*.









GENUS CORVUS (Crow)

G. CORICLAS (Roller)

1 C. Corne.  
RIVEN.

2 C. Fica.  
MAGPIE.

3 C. Ceryleolactes.  
NUTCRACKER.

4 C. glandarius.  
JAY.

5 C. cristatus.  
CRESTED JAY.

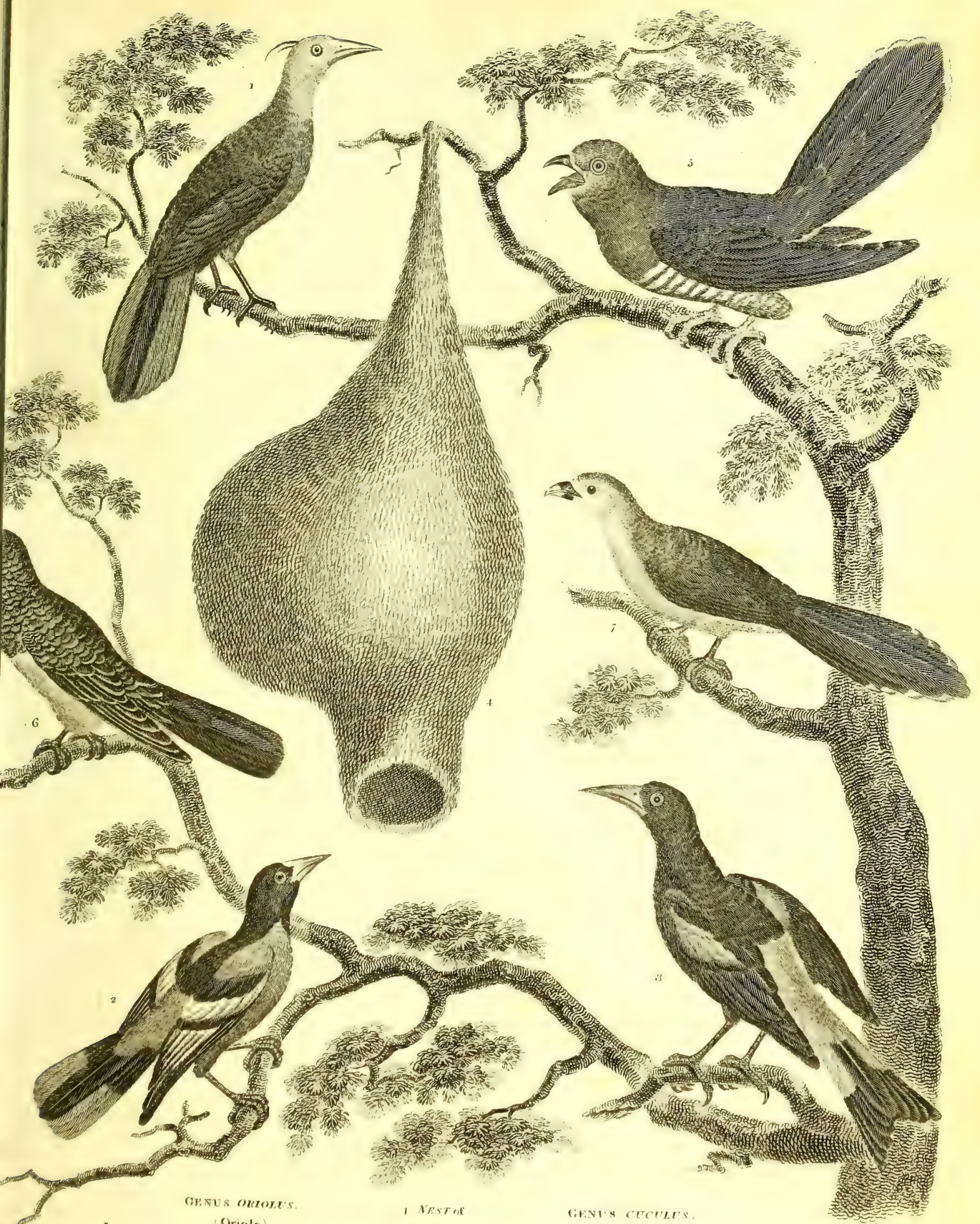
6 C. garrula.  
COR. ROLLER.

Published at the Art directors' Room, 1 place de Louvain, H. 1855. — Paris. — Librairie de la Rue.









GENUS ORIOULUS.

(Oriole)

1. *O. Griseolatus*. 2. *O. Baltimore*. 3. *O. Præcinctus*.  
CRESTED O. BALTIMORE O. BLACK & YELLOW O.

1. NEST of  
*O. BALTIMORE*.

GENUS CUCULUS.

(Cuckoo)

5. *C. Canorus*. 6. *C. Cupreus*. 7. *C. Indicator*.  
COMMON C. CUPREOUS C. HONEY GUIDE C.







Div.<sup>1</sup> Land Birds—Order 2<sup>d</sup> PICÆ.



GENUS GRACILA

(Grackle)

1. G. Quiscal. 2. G. Calva 3. G. Sauraris.  
PURPLE G. BALD G. DIAL G.

G. PARIDISEA

(Bird of Paradise)

4. F. Regia. 5. F. Apoda. 6. F. Aurea.

KING BIRD of P. GREATER BIRD of P. GOLDEN BIRD of P.

G. TODUS

(Tody)

7. T. Macrorhynchos  
GREAT BILLED T.







Syst.

# ORNITHOLOGY.

Div.<sup>2</sup> Land Birds — Order 2<sup>d</sup> PICÆ.

PLATE VI.



Genus *TROGON*.

(Caracui)

L.T. Caracui

RED BELLED C.

*G. BUCCO*.

(Barbet)

2. B. Lathamii 3. B. Guyanensis var.

BLACK SPOTTED B.

*G. FUNX*.

(Wynneck)

A.T. Torquilla

COMMON WYNECK

*G. PICUS*.

(Woodpecker)

5. P. Pilottus 6. P. Carolinus var.

PLEATED W. — CAROLINA WYNE.

*G. SITTIS*.

(Nuthatch)

7. S. Europæa.









GENUS ALCEDO

(Kingfisher)

1. *A. Cristata*  
CRESTED K.

2. *A. Venerata*  
VENERATED K.

3. *A. Alcyon*  
BELTED K.

4. *A. Sacra*  
SACRED K.

GENUS GALBULA

(Jacamar)

5. *G. Paradisi*  
PARADISE J.

6. *G. Viridis*  
GREEN J.









GENUS MEROPS  
(Bee Eater)

1. *M. Garnierianus*.  
WATTLED B.E.

2. *M. Nova Zelandia*.  
NEW ZEALAND B.E.

3. *U. Promerops*.  
CAPE H.

G. UPUPA  
(Hoopoe)

4. *U. Epops*.  
COMMON H.

5. *U. Erythronychus*.  
RED BILLED H.









G. TROCHILUS  
(Humming Bird)

ALLEN 12

1. C. Obscura

2. C. Obscura

3. C. Obscura

4. C. Obscura

5. C. Obscura

6. T. Punctatus

7. T. Punctatus

8. T. Punctatus

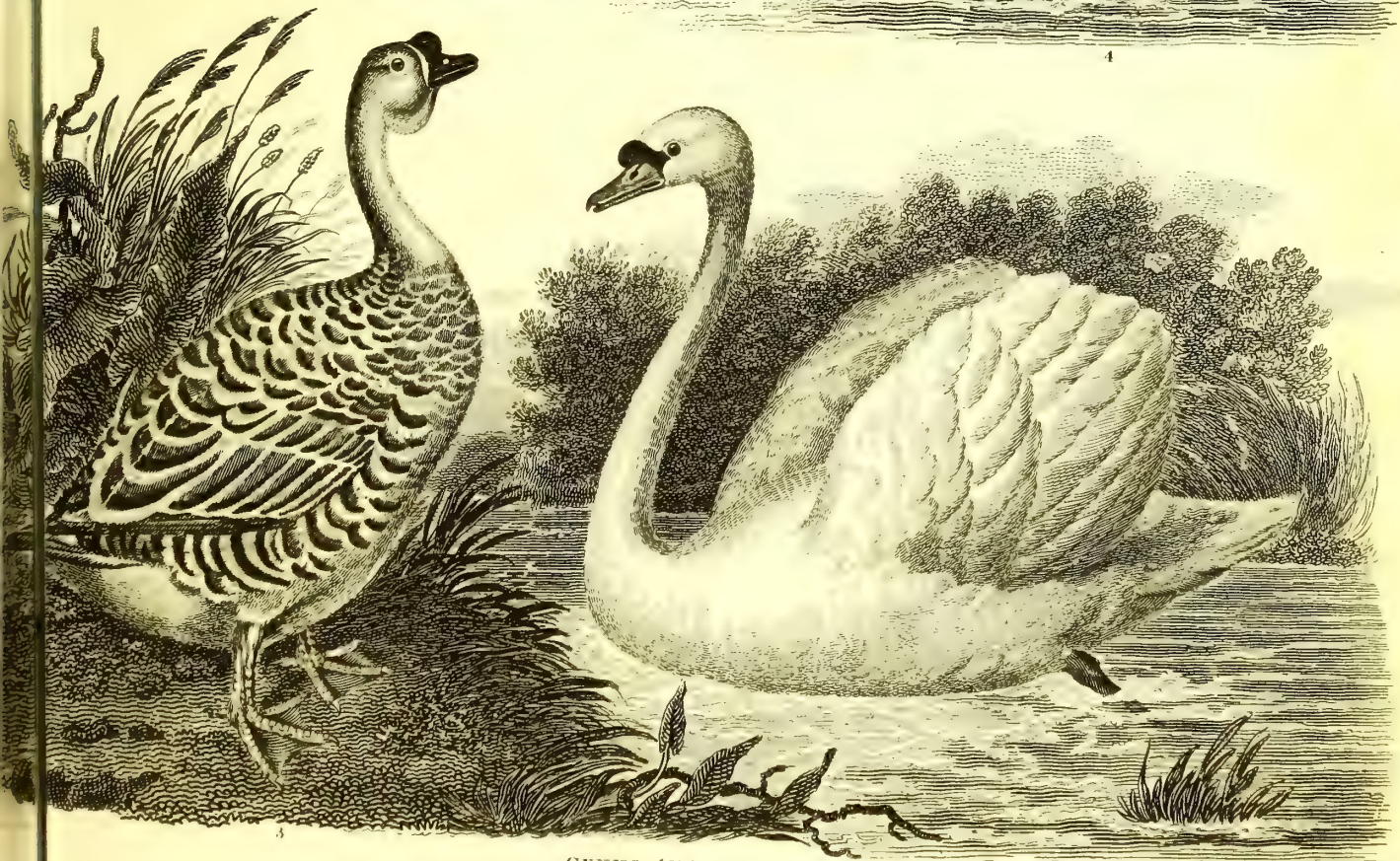
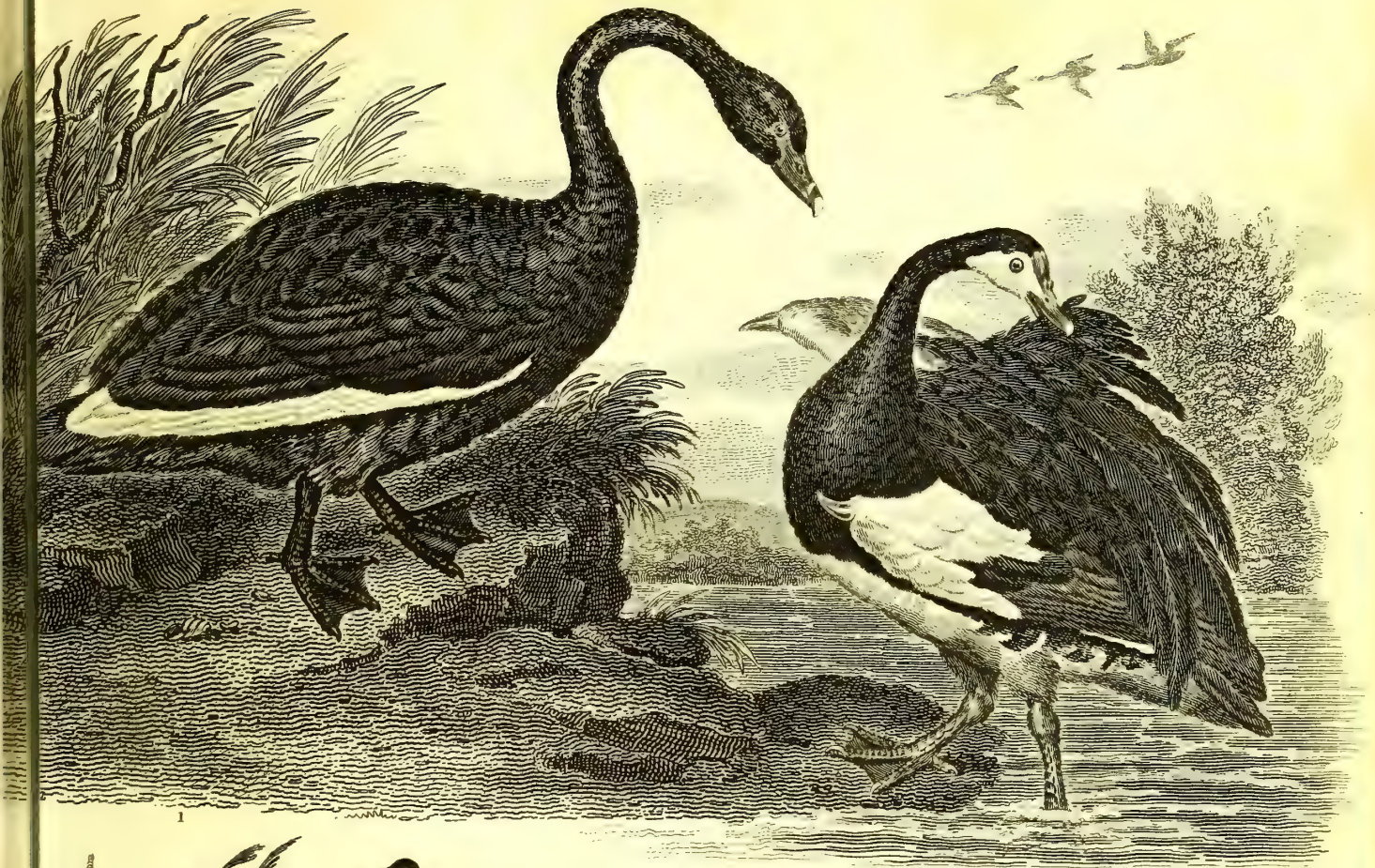
9. T. Punctatus

10. T. Punctatus









GENUS ANAS

1. A. *Alata*.

2. A. *Olor*.

(Swan)

3. A. *Cygnoides*.

4. A. *Gambensis*.

BLACK S.

TAME S.

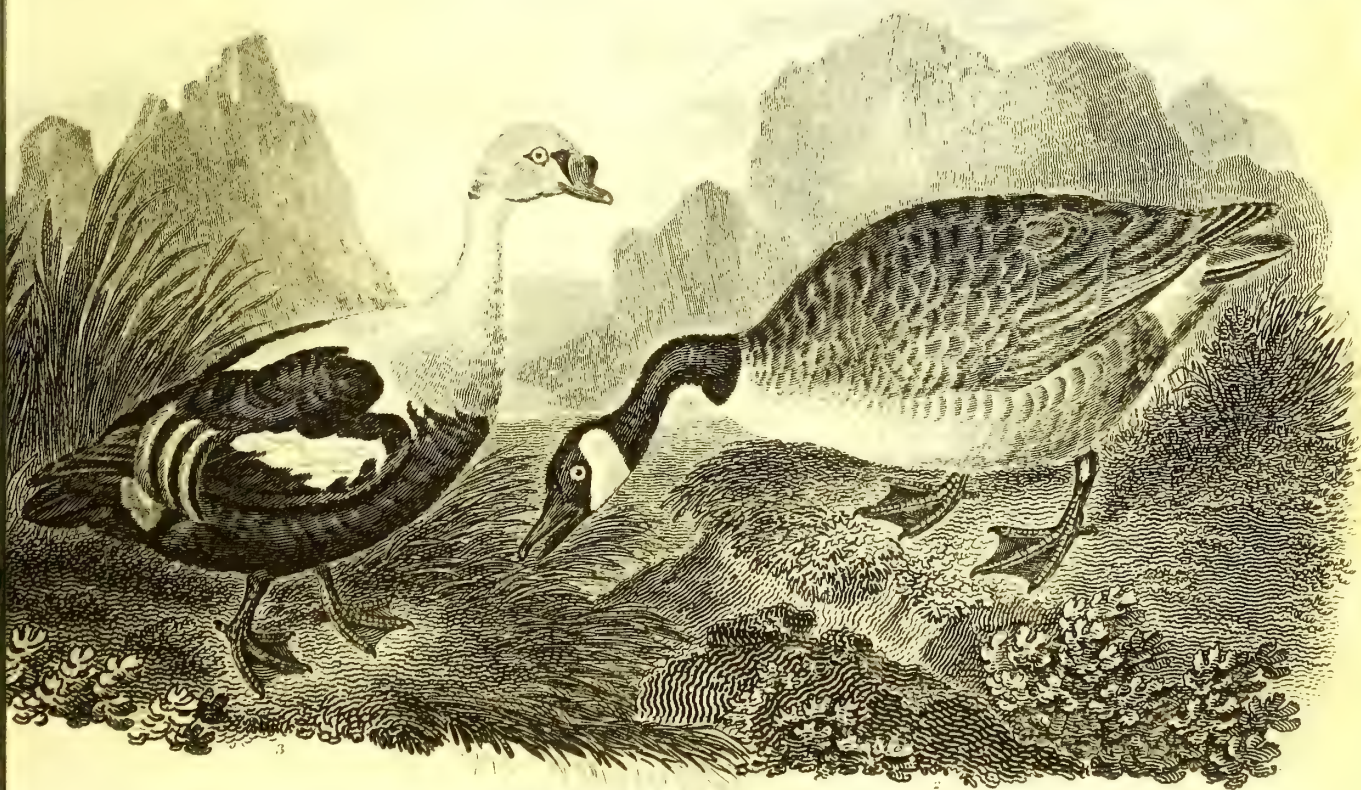
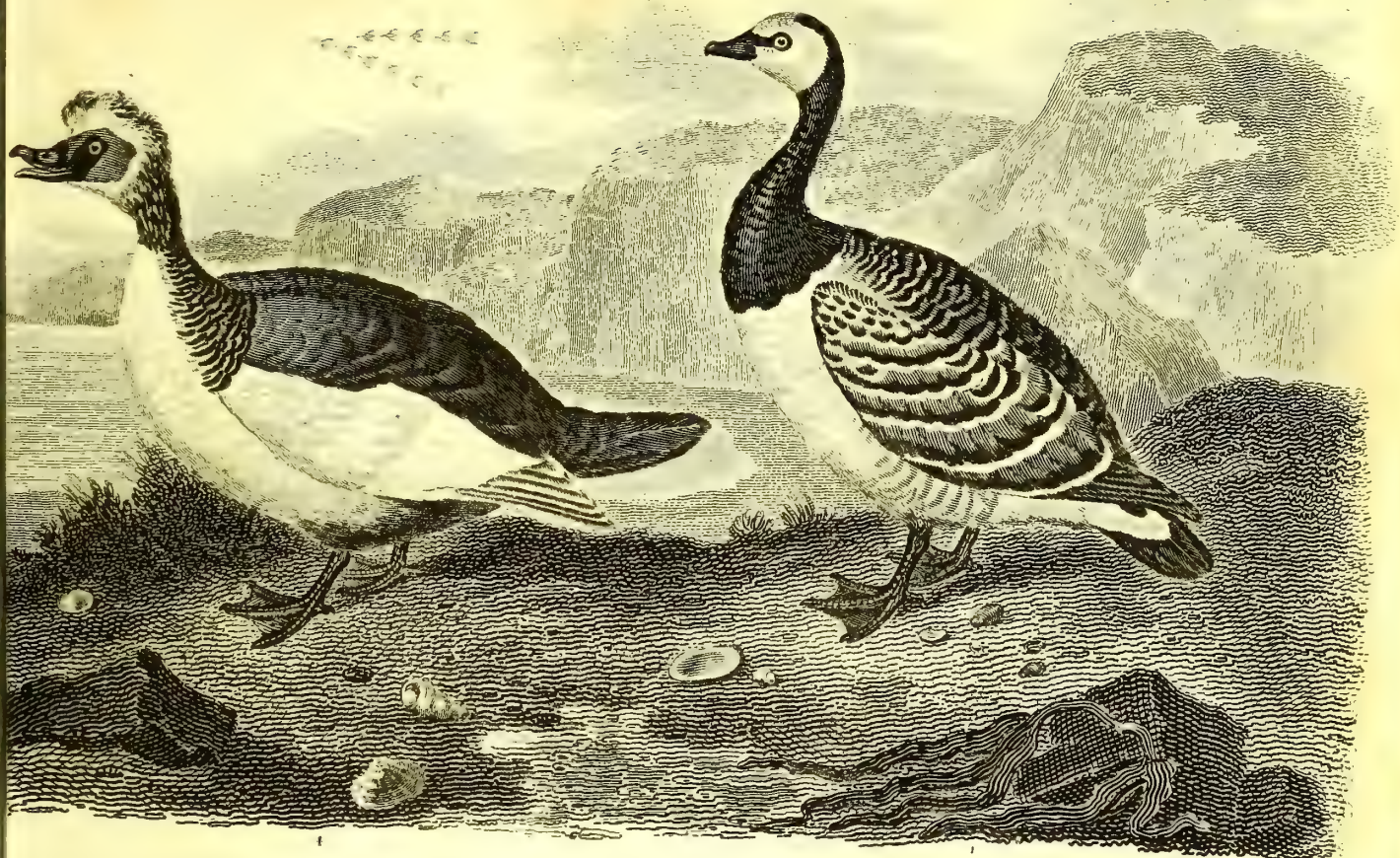
CHINESE GOOSE.

SPUR-WINGED G.









GENUS *ANAS*  
(Swan)

1. *A. erythropterus*.  
BERNACLE GOOSE

2. *A. canadensis*.  
CANADIAN G.

3. *A. spectabilis*.  
GREY HEADED DUCK.

4. *A. moschata*.  
MUSCOVY D.



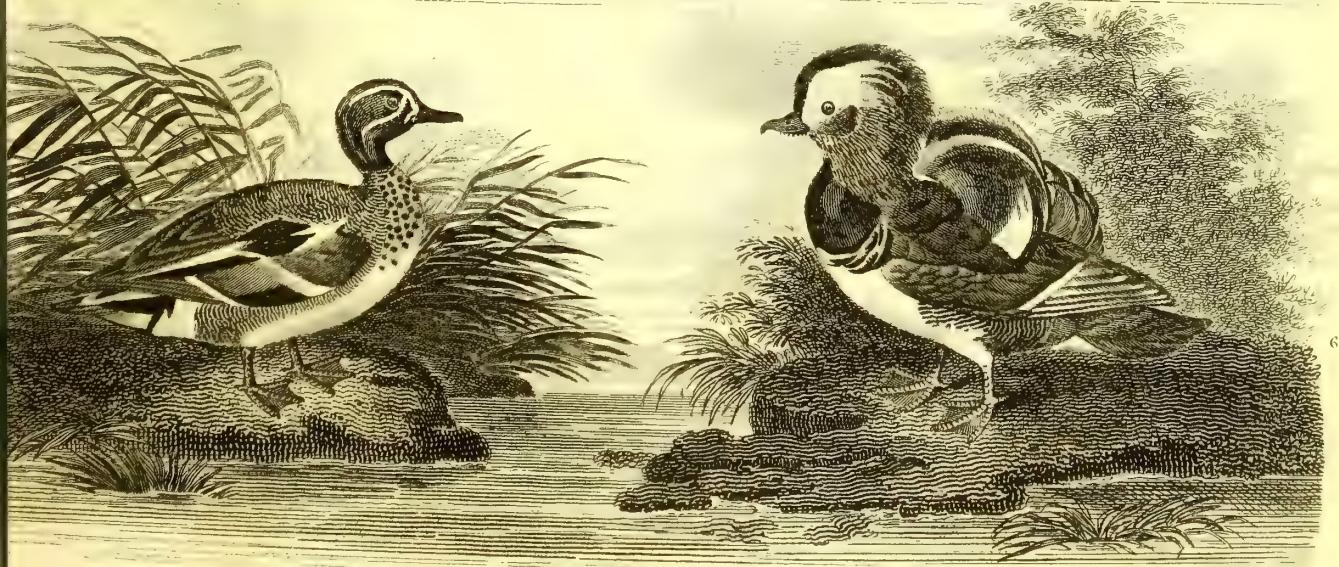
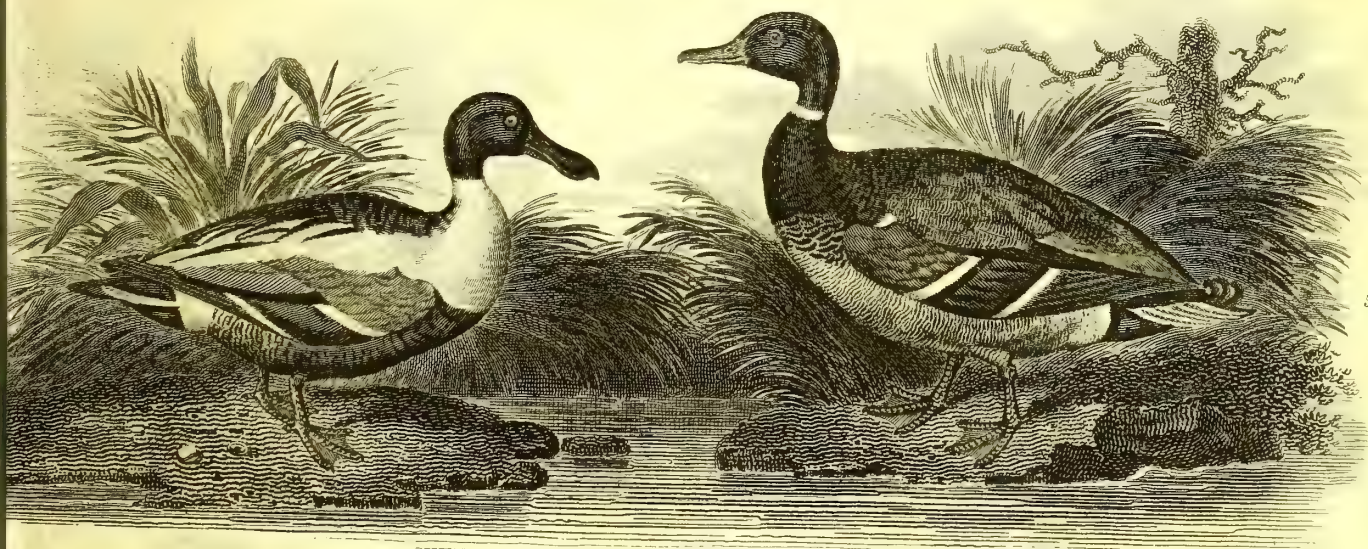




# ORNITHOLOGY.

Div.<sup>n</sup> 2<sup>d</sup> Water Birds — Order 3<sup>d</sup> ANSERES.

PLATE V  
of Order A.



1. *A. Tadorna*  
SHELDRAKE.

2. *A. Clypeata*.  
SHOVELER.

3. *A. Cerea*.  
TEAL.

GENUS *ANAS*  
(Swan)

4. *A. Curvirostra*.  
HOOK BILLED DUCK.

5. *A. Boschas*  
MULLARD.

6. *A. Galericulata*.  
MANDERINE DRAKE.

Published as the Act directs, Sep. 1<sup>st</sup> 1807, by Longman Hurst Rees & Orme, Paternoster Row.









GENUS Mergus  
(Merganser)

1. *M. merganser*  
GOOSANDER

2. *M. lucidatus*  
CHRISTED M.

3. *M. lobatus*  
SMELW

GENUS ALCA  
(Auk)

4. *A. antiqua*  
INCUBENT

5. *A. cirrata*  
TUFTED

GENUS APTENODYTES  
(Penguin)

6. *A. patagonica*  
PIED-BLANKET

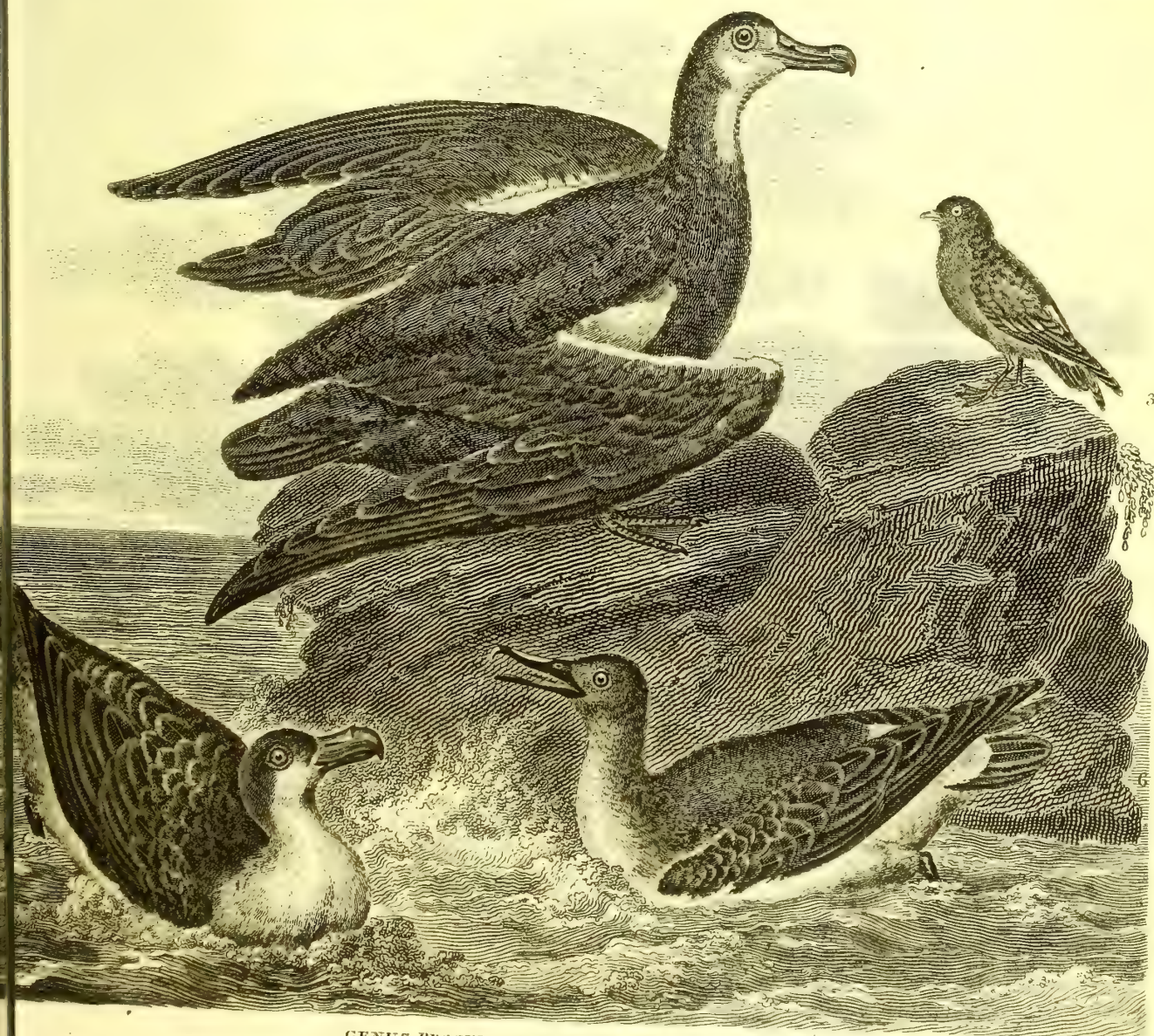
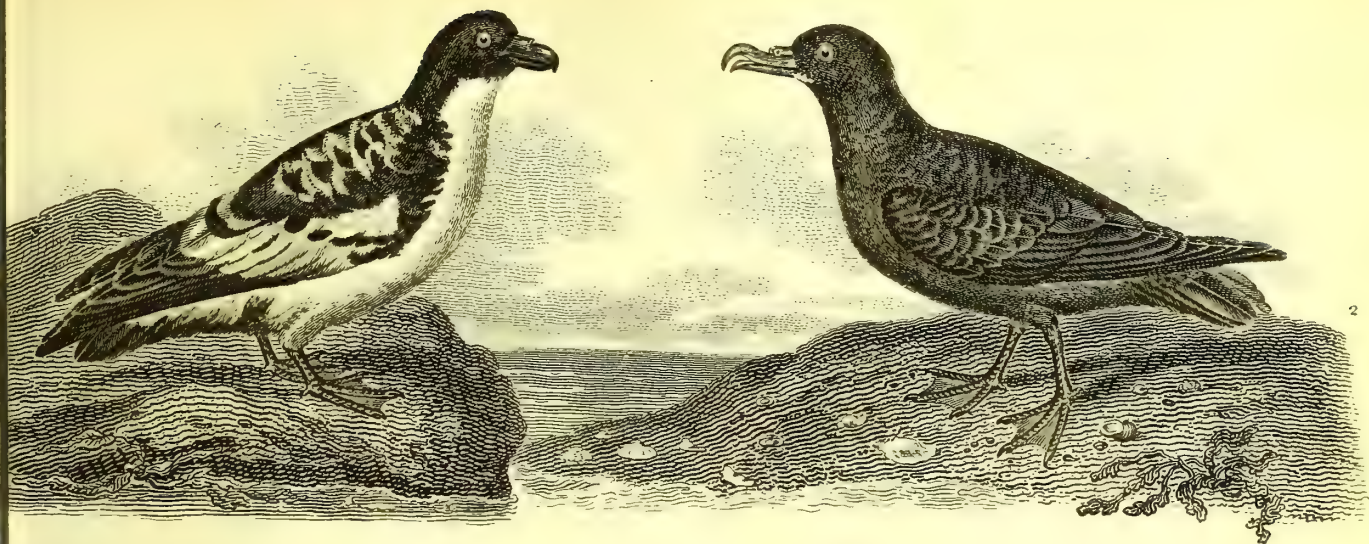
7. *A. papua*  
PAPUAN P.

8. *A. minor*  
LITTLE P.









GENUS PROCELLARIA G. DIOMEDIA

(Petrel)

(Albatross)

- |                       |                         |                       |                       |                       |                             |
|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------------|
| 1. <i>P. Capensis</i> | 2. <i>P. Fuliginosa</i> | 3. <i>P. Pelagica</i> | 4. <i>P. Gigantea</i> | 5. <i>D. Spadicea</i> | 6. <i>D. chlororhynchos</i> |
| PINTADO P.            | SOOTY P.                | STORMY P.             | GIANT P.              | CHOCOLATE I.          | YELLOW NOSED I.             |

Published as the Act directs. L. & C. 1844. by E. L. & Co. Lith. & Brown, Paternoster Row.







# ORNITHOLOGY.

Div.<sup>n</sup> 2<sup>d</sup> Water Birds — Order 3<sup>d</sup> ANSERES.

PLATE VI.



## G. PELECANUS

(Pelican)

1. P. erythrorhynchos  
ROUGH BILLED P.

2. P. sula  
BOOBY P.

3. P. aquilus  
FRIGATE P.

## GENUS PLUTUS

(Darter)

4. P. punctatus  
SPOTTED SHAG

5. P. melanogaster  
BLACK BELLED D.

Published at the Act directe. Oct. 2. 1809, by Longman Hurst, Rees & Orme, Paternoster Row.

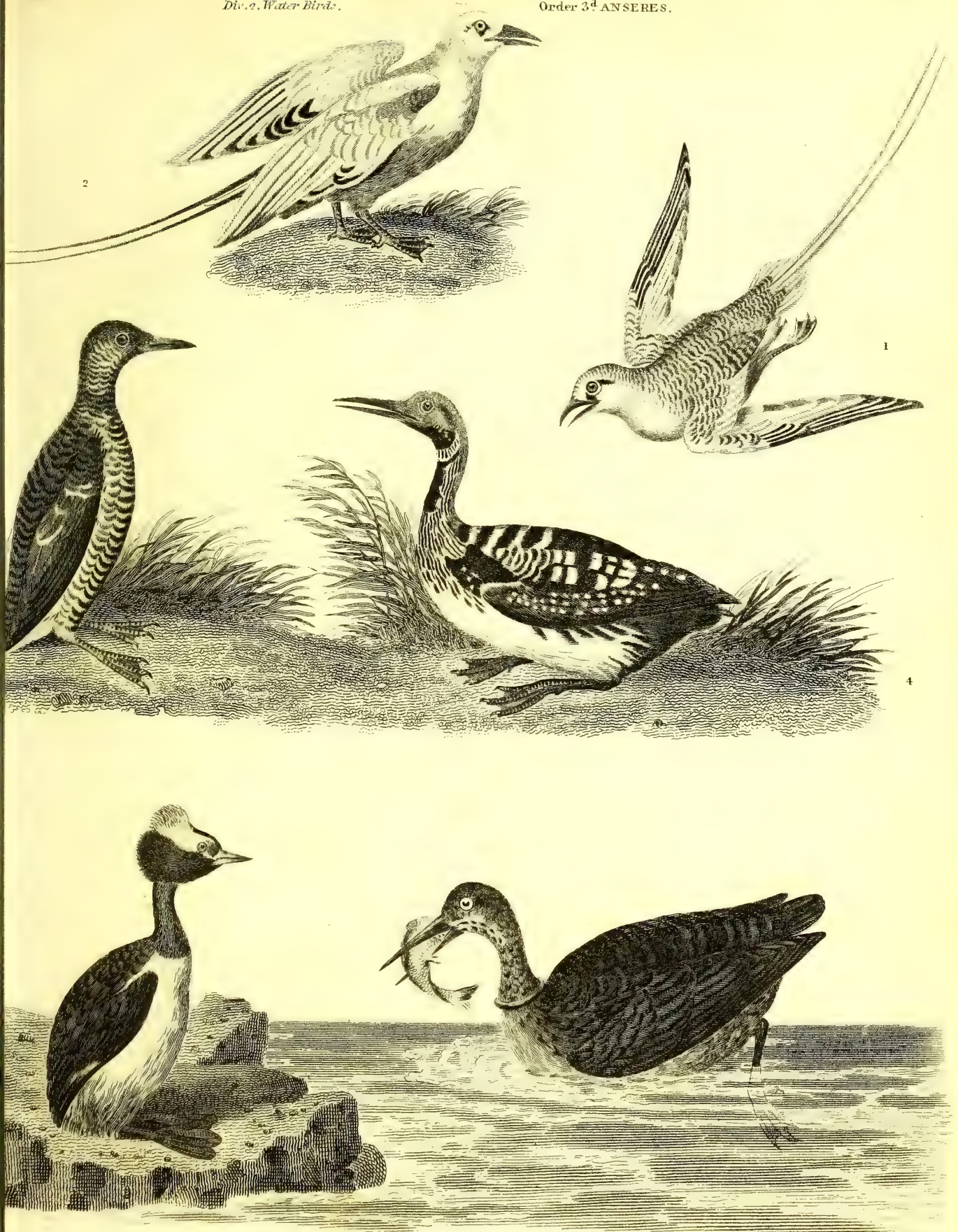






Div. 2. Water Birds.

Order 3<sup>d</sup> ANSERES.



**G. PHAETON**

(Tropic Bird)

1. *P. Enderbyi*

2. *P. Phaeopus*

3. *P. Fuscus*

**GENUS COLYMBUS**

(Guillemot, Diver, Grebe)

4. *C. Arcticus*

5. *C. Sinensis*

6. *C. Cornutus*

COMMON T.

RED TAILED T.

MARbled GT

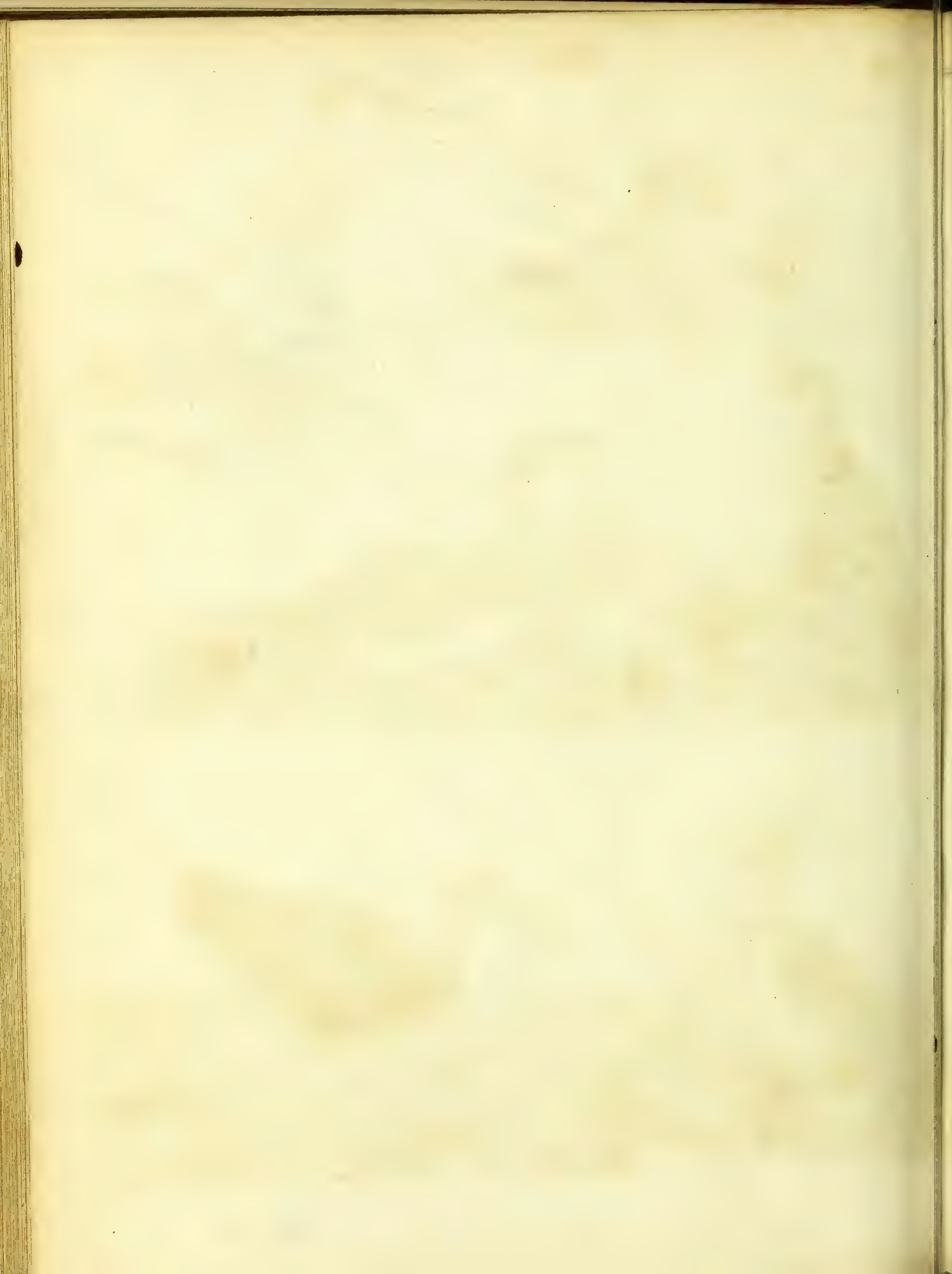
BLACK THROATED D

CHINESE D.

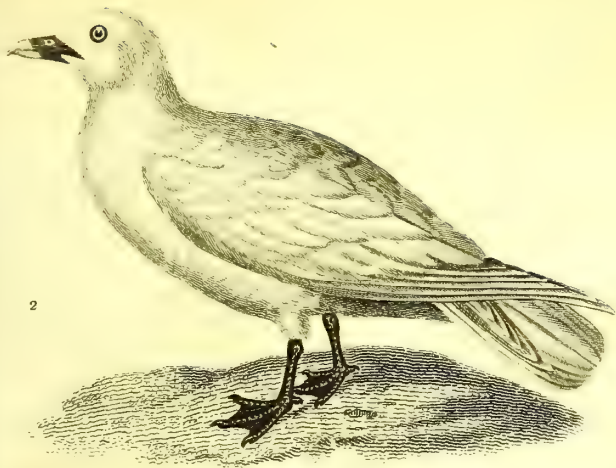
HORNED GT

Published at the Act direct. Nov. 1848 by Longman, Hurst, Rees, Orme & Brown, Paternoster Row

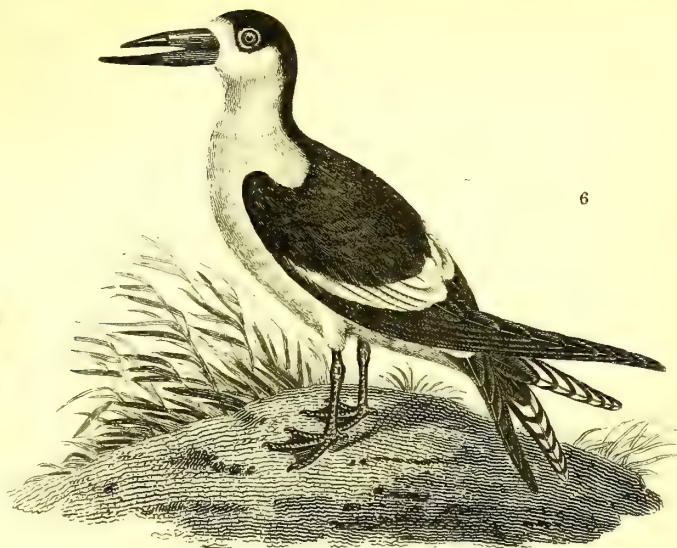




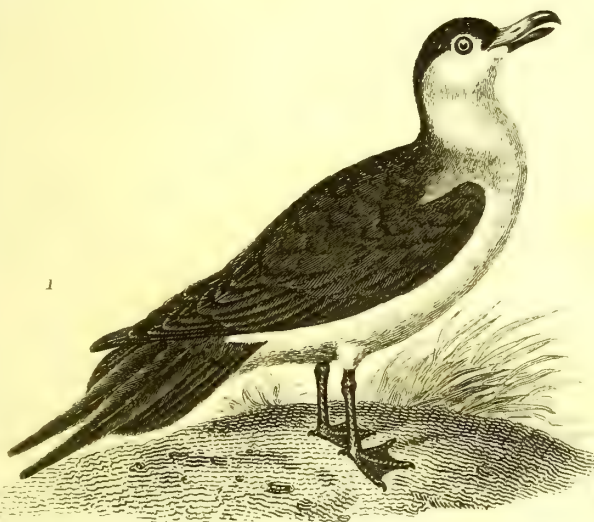




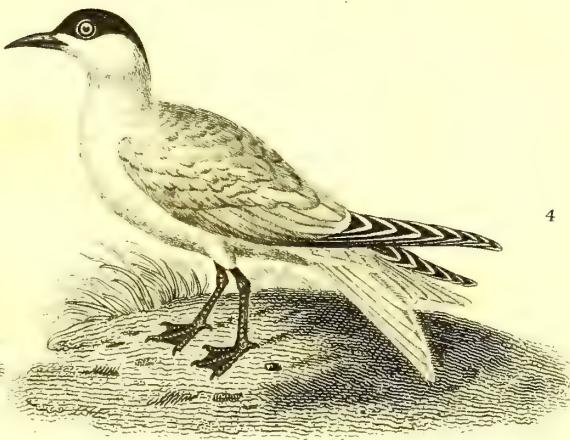
2



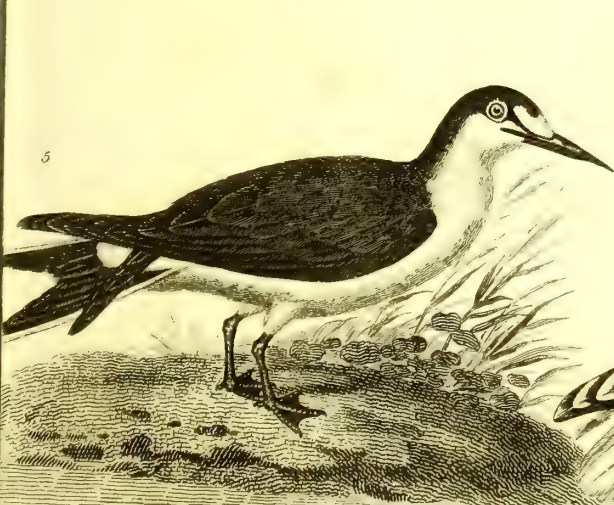
6



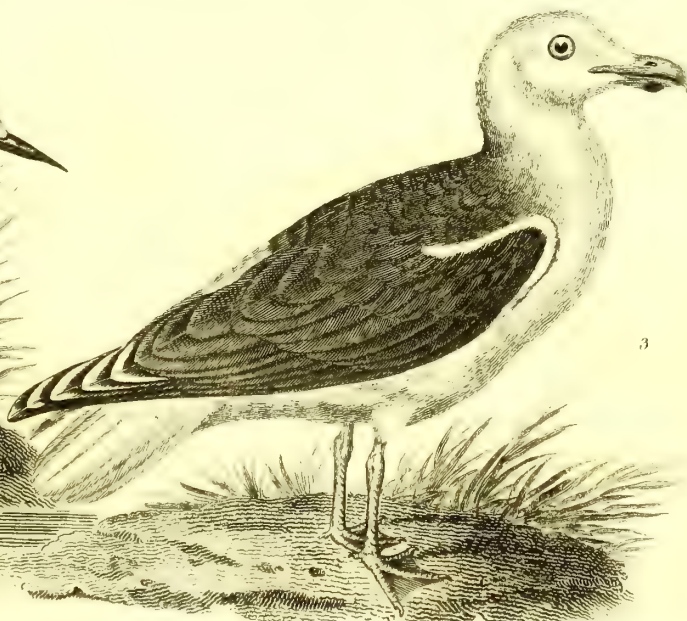
1



4



5



3

GENUS *LARUS*

(Gull)

1. *Parasiticus*  
ARCTIC G

2. *L. burneus*  
IVORY G.

3. *L. marinus*  
BLACK BACKED G

G. STERNA

(Tern)

4. *S. Caspia*  
CASPIAN T.

5. *S. stolidus*  
NODDY S.

G. RINCHOPS

(Skimmer)

6. *R. nigra*  
BLACK S









GENUS PHENICOPTERUS.

1. *P. ruber*  
RED FLAMINGO.

G. PLATALEA.

2. *P. alba*  
ROSEATE SPOON BILL.

G. PALAMEDEA.

3. *P. cornuta*  
HORNED SCREAMER.

G. MYCTERIA.

4. *M. novaehollandiae*  
NEW HOLLAND JACINTE.







# ORNITHOLOGY.

Order GRALLÆ.

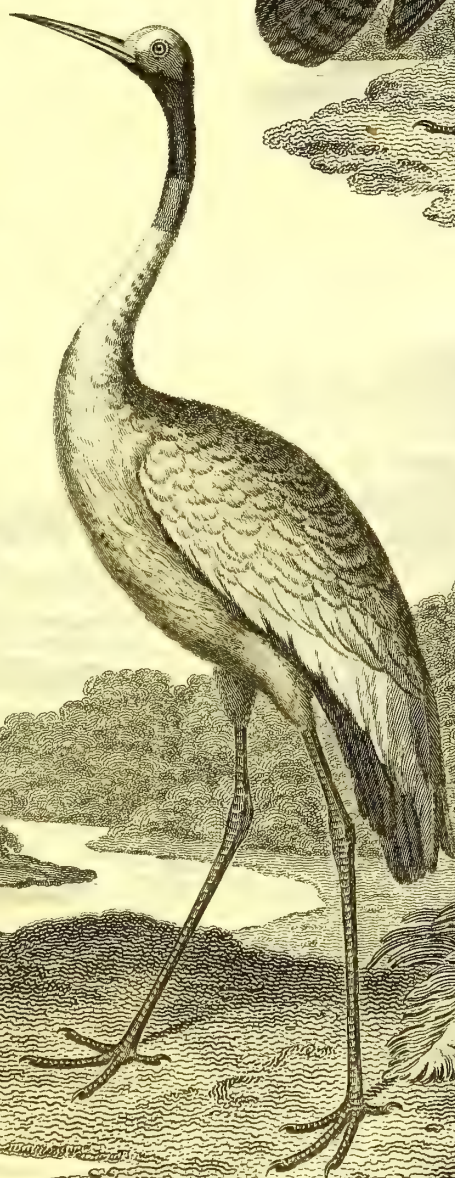
PLATE II

GENUS *CANCROMA* — *G. SCOPUS* — *G. ARDEA*.

(Boat-bill)

(Umbre)

(Crane)



1. *C. Cochlearia*

2. *S. Umbrella*

3. *A. Pannonia*

4. *A. Antigone*

CRESTED C.

TUFTED C.

CROWDED C.

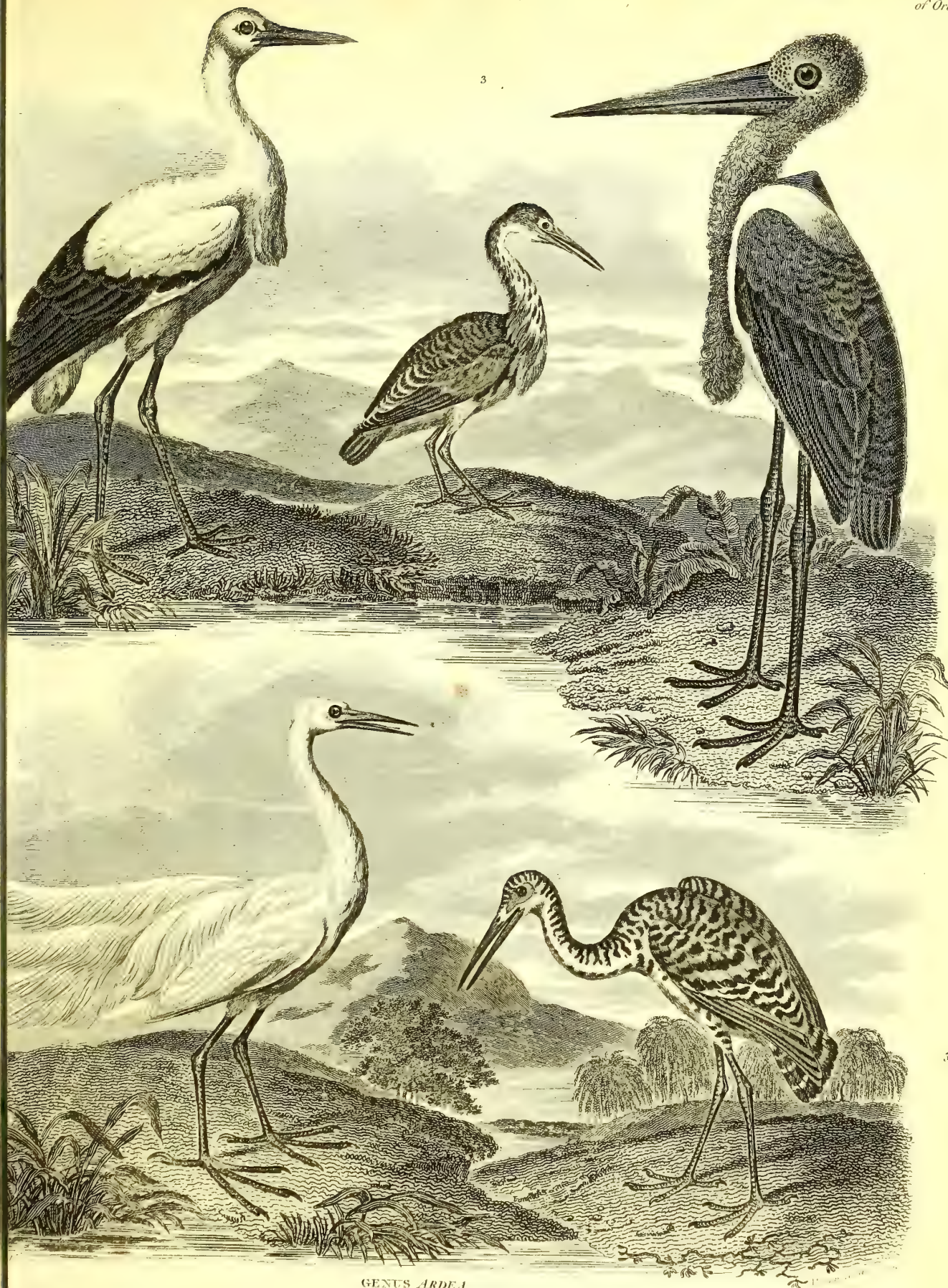
INDIAN C.

Published as the Act directs April 1. 1812. by Longman, Hurst, Rees, Orme & Bryson, Paternoster Row.









GENUS ARDEA

(Crane)

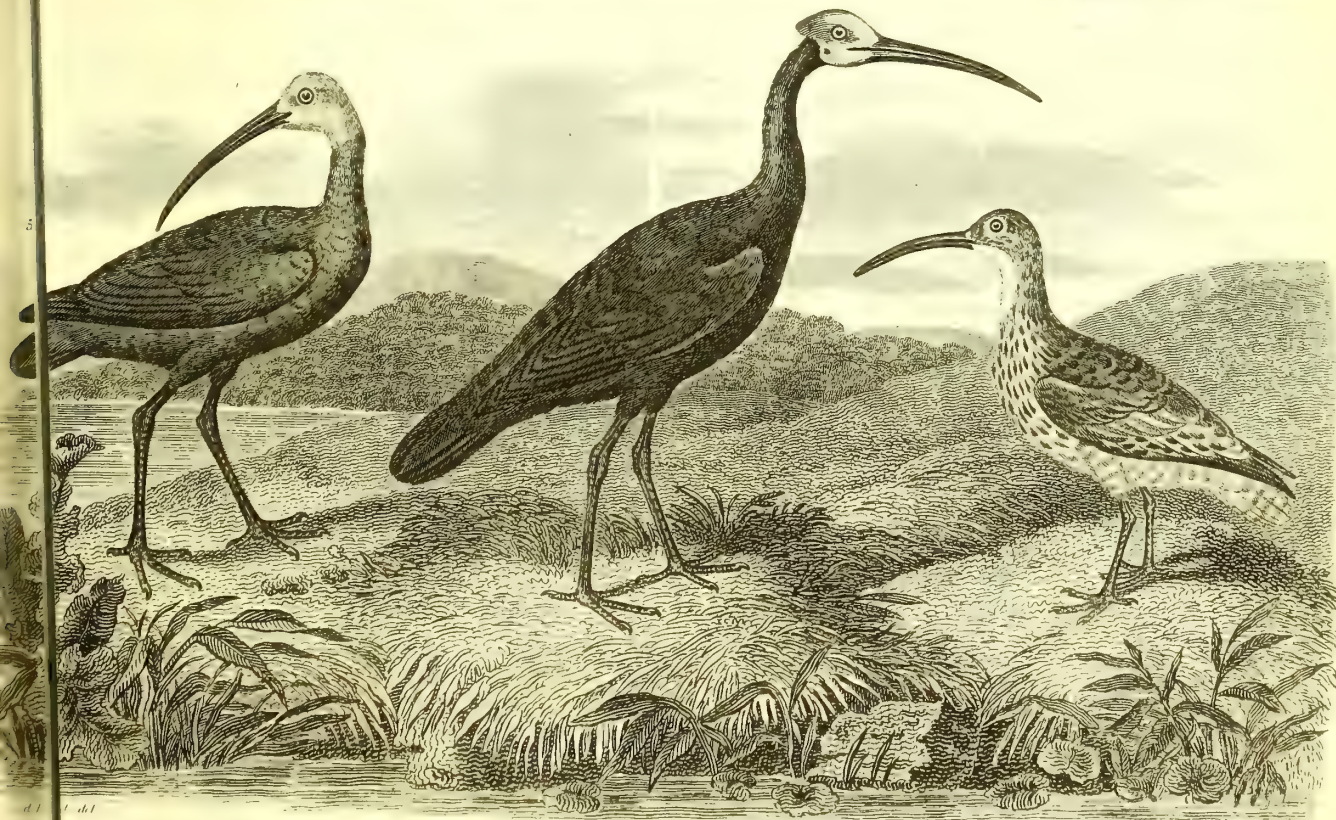
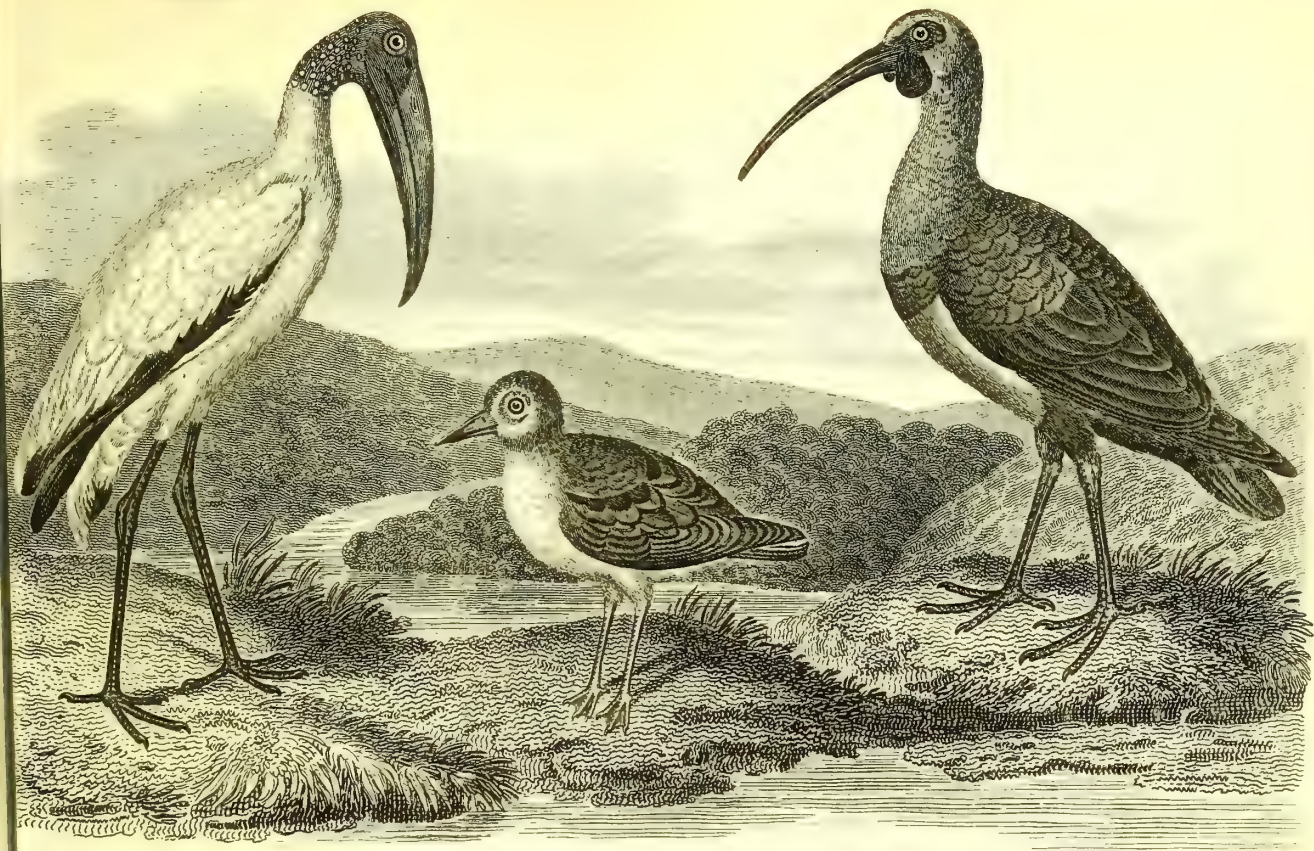
- |               |                |                |               |               |
|---------------|----------------|----------------|---------------|---------------|
| 1. A. Ciconia | 2. A. Dubia    | 3. A. Exilis   | 4. A. Egretta | 4. A. Tigrius |
| WHITE STORK   | GIGANTIC HERON | MINUTE BITTERN | GREAT EGRET   | TIGER BITTERN |

Published as the Act directs, Sept. 7, 1821, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.









GENUS TANTALUS

(Ibis)

1. T. Loculator

WOOD I

2. T. Melanopsis

BLACK FACED I.

3. T. Calvus

BALD I.

G. CORRIRA

(Courier)

4. C. Italica

ITALIAN C.

G. SCOLOPAX

(Wimbrel)

5. S. Leucocephala

WHITE HEADED CURLEW

6. S. Phaeopus

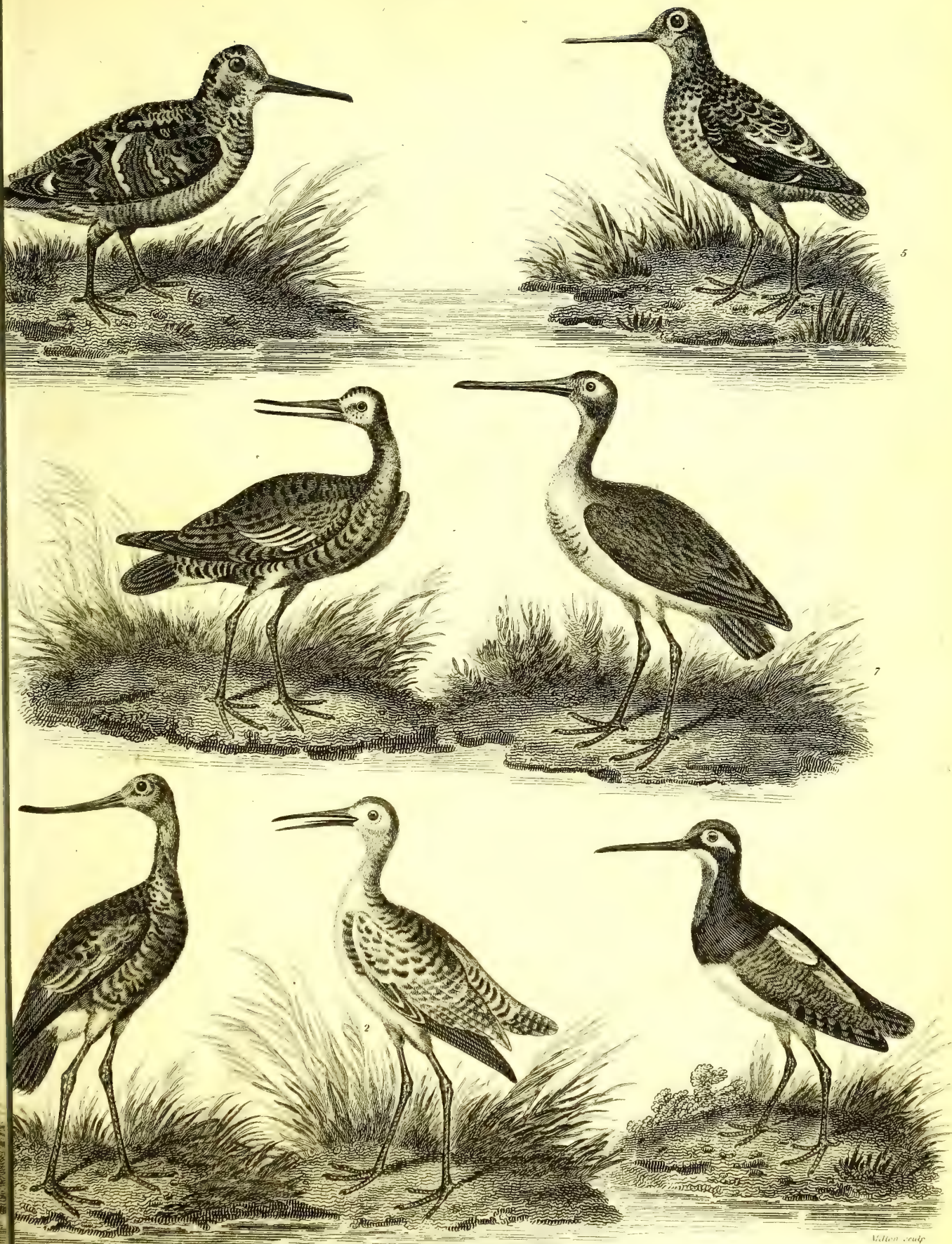
WIMBREL







Order GRALLÆ.



GENUS SCOLOPAX

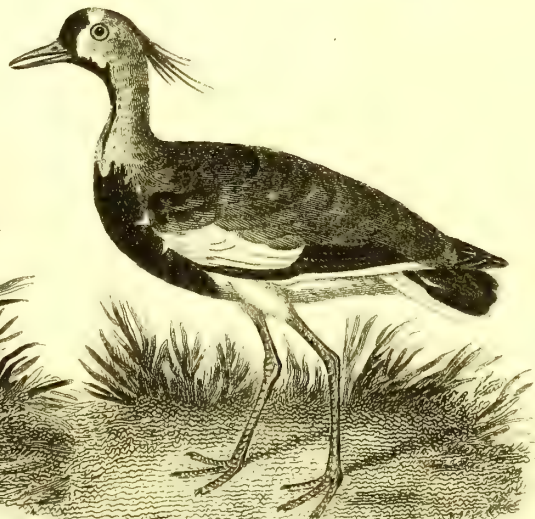
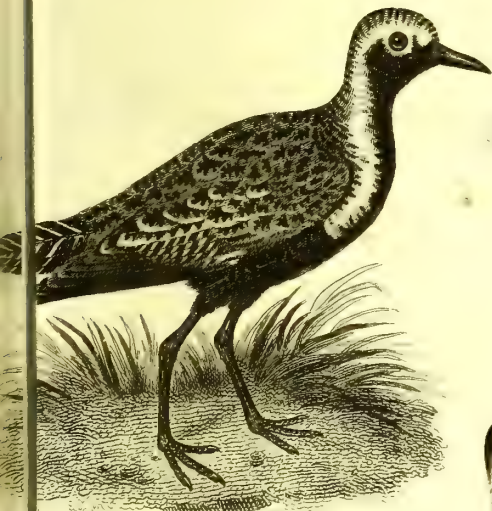
- |                                      |   |                                     |                                     |                                   |                                       |                                  |
|--------------------------------------|---|-------------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|----------------------------------|
| 1. <i>S. Lapponica</i><br>RED GODWIT | 2. <i>S. Candida</i><br>WHITE RED SHANK | 3. <i>S. Capensis</i><br>CAPE SNIFE | 4. <i>S. Rusticola</i><br>WOOD COCK | 5. <i>S. Major</i><br>GREAT SNIFE | 6. <i>S. Fadoa</i><br>AMERICAN GODWIT | 7. <i>S. Limosa</i><br>LESSER GT |
|--------------------------------------|---|-------------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|----------------------------------|

Published as the Act directs, Dec. 1<sup>st</sup> 1821, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.









GENUS TRINGA

Sandpiper)

*T. Leucoptera*

*T. Pugnax*

*T. Lobata*

*T. Apricarius*

*T. Himantopus*

*T. Spinxus*

WHITE WINGED SP.

RITT & GREEVE

GREY PHALAROPE

ALWARGRINT

LONG LEGGED P.

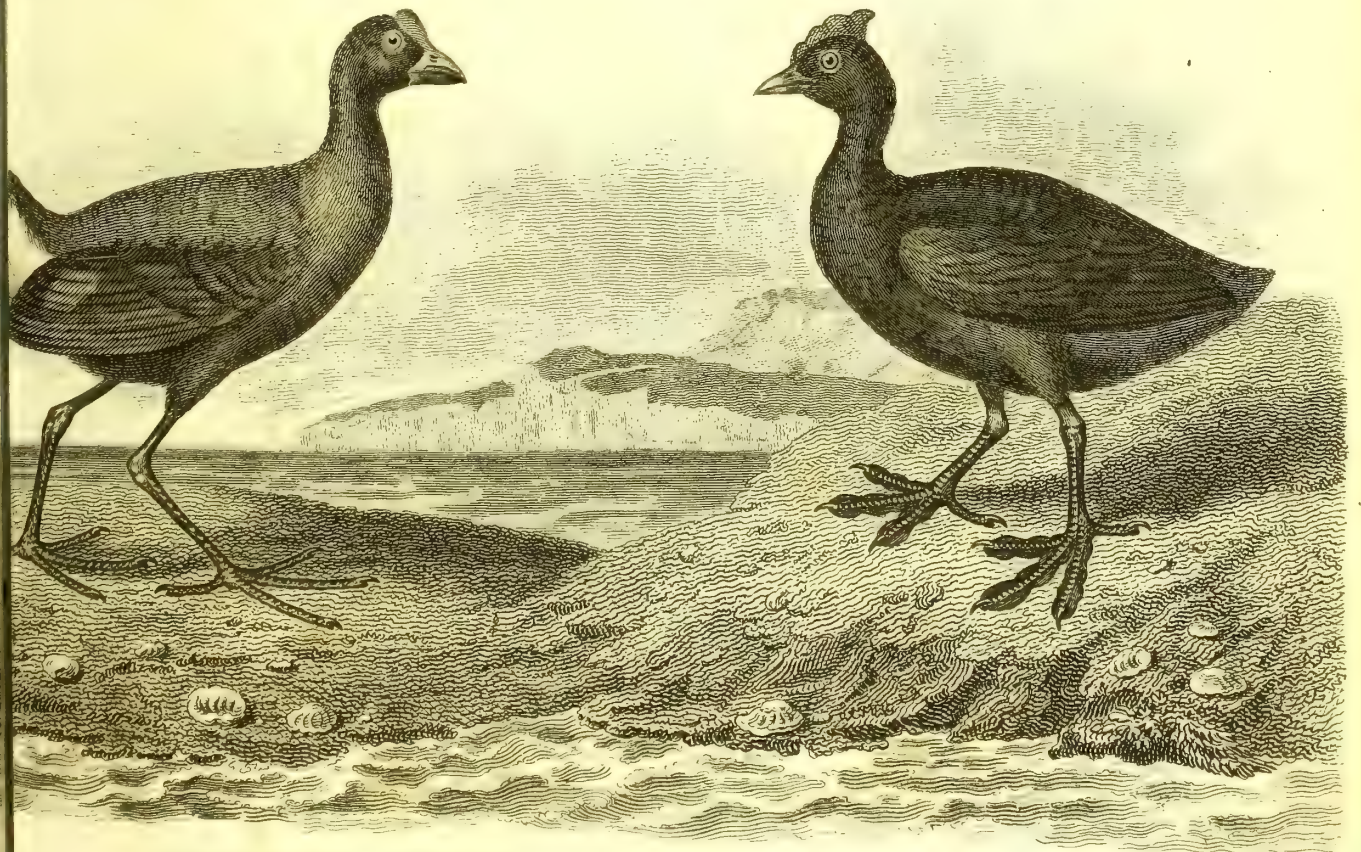
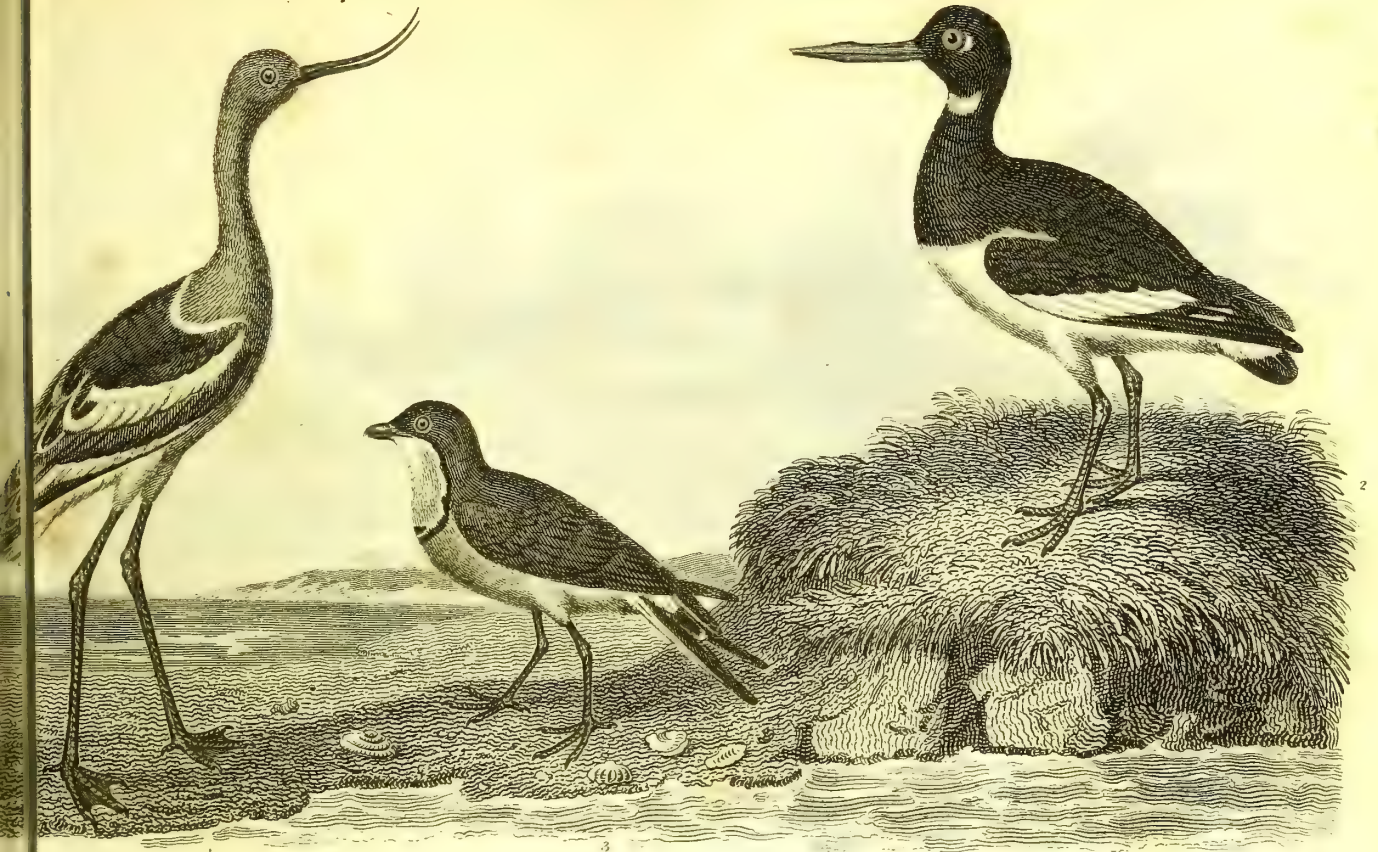
SPUR WINGED P.

Published as the Act directed Sept. 2. 1821. by Longman, Hurst, Rees, Orme & Brown, Paternoster Row









*G. RECURVIROSTRA*  
(Avocet)

*G. R. Americana*  
AMERICAN A.

*G. LEUCOPHAEA*  
(Oyster-catcher)

*G. L. Ostralegus*  
OYSTER C.

*G. GLAREOLA*  
(Pratincole)

*G. G. Austriaca*  
AUSTRALIAN P.

GENUS *FULICA*  
(Gallinule & Coot)

*F. F. Porphyrio*  
PURPLE G.

*F. F. Cristata*  
CREST









*G. VAGINALIS*

1. *N. alba*

WHITE SHEATH BILL

GENUS *PARA*

2. *P. Jacana*

CHESNUT JACANA

3. *P. Sinensis*

CHINA J.

GENUS *RALLUS*

4. *R. Cret*

LIND RAIL

5. *R. variegatus*

VARIEGATED R.

GENUS *PSOPHA*

6. *P. crepitans*

GOLD BREASTED TRUMPETER

Published as the Act directs, Feb. 8<sup>th</sup> 1849, by Longman, Hurst, Rees & Orme, Paternoster Row.







## ORNITHOLOGY.

*Div<sup>n</sup> 2 Land Birds* — Order 5 GALLINÆ.

PLATE I

of Order  $G^E$ .



GENUS OTIS

(Bustard)

*O. Tarda.*

*GREAT B.* Male 1. Female 2.

3. *S. Rhea*.

AMERICAN O.

GENUS *STRUTHIO*

( Ostrich )

4. *S. Casuarina*.

*C. ISOWARY.*

*S.S. Nova Hollandia*

NEW HOLLAND CLASSIC LTD

[illegible]









GENUS DODO.

(Dodo)

*Didus Ineptus*, HOODED D.

Published as the Act directs June 1

GENUS STRUTHIO.

(Ostrich)

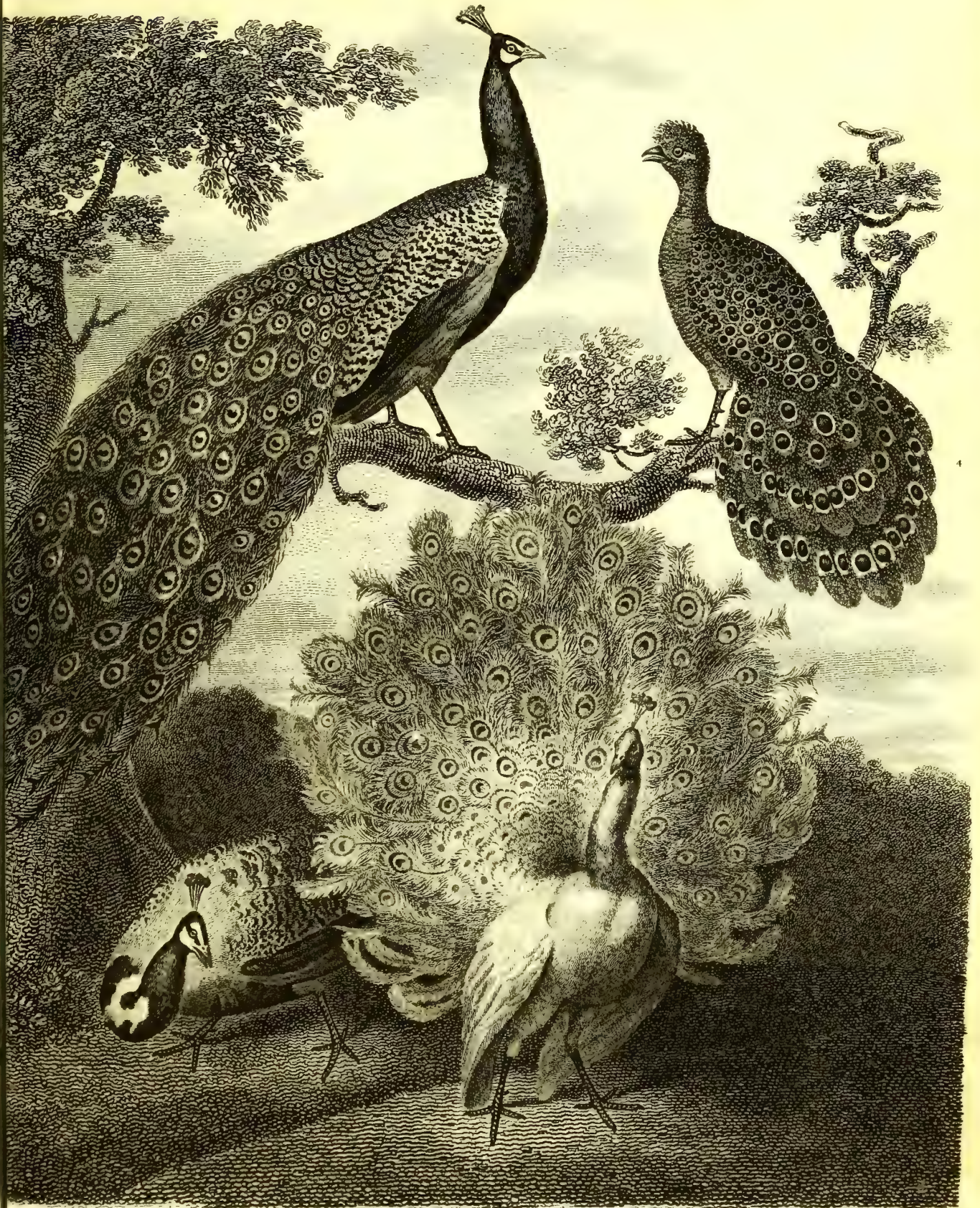
*S. Camachus*, OSTRICH Male 3 1/2 m. h.

W. & A. G. Smith, Edinburgh & L.









GENUS PAVO.  
(Peacock)

- |                          |   |  |                             |
|--------------------------|---|--|-----------------------------|
| 1. <i>P. cristatus</i> . | 2. <i>P. cristatus</i> v. <i>varius</i> . | 3. <i>P. cristatus</i> var. <i>albus</i> . | 4. <i>P. bicalcaratus</i> . |
| COMMON PEACOCK.          | VARIEGATED or PIED PEACOCK.               | WHITE PEACOCK.                             | IRIS PEACOCK.               |

Published as the Act directs April 1<sup>st</sup> 1808 by Longman Hurst, Blevins & Orme, Printers in the Strand.









GENUS MELEAGRIS (Turkey)

1. *M. Gallipavo*.

AMERICAN WILD TURKEY.

G. PENELOPE (Guan)

2. *P. Cristata*.

GUAN.

G. CRAX (Curassow)

3. *C. Alector*.

5. *C. Purpur.*

CURASSOW, Male. 4 Female. CUSHAW.









1. Wild Cock. 3. Rumpless Cock. 5. Hamburgh Cock. 7. Game Cock. 9. Bantam Cock. 1. Gallus. 2. Hen. 4. Silky Cock. 6. Hen. 8. Hen. 10. Hen. } Lanius







# ORNITHOLOGY.

Div. 2<sup>d</sup> Land Birds — Order GALLINÆ.

GENUS PHASIANUS.

PLATE VI.



*P. Gallus* 11. Malay Cock. 12. Hen. 13. Dorking Cock. 14. Hen. 15. Frizzled Cock. 16. Hen. } *Turictis*

Published as the Act directs May 27<sup>th</sup> 1808 by Longman Hurst Rees & Orme Paternoster Row









GENUS PHASIANUS (Pheasant)

1. P. Colchicus. 2. P. Pictus. 3. P. Nycthemerus. 4. P. Argus  
COMMON P. GOLD P. SILVER P. ARGUS P.

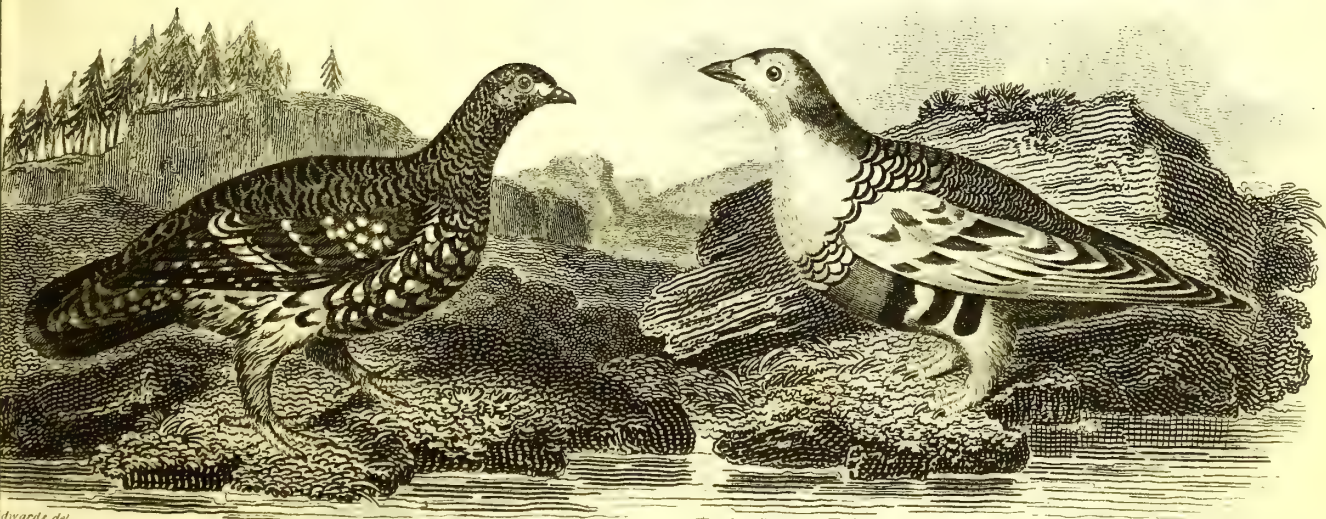
Published as the Act directs, April 1<sup>st</sup> 1807, by Longman, Hurst, Rees & Orme, Stationers, Rm.







Div. 1<sup>st</sup> Land Birds — Order GALLINÆ.



GENUS NUMIDIA - G. TETRAO

(Bentado) (Grouse)

1. N. Macgregri  
GUINEA HEN or PINTADO

2. N. cristata  
CRESTED P.

3. T. umbellus  
RUFFED or RUFF NECKED GROUSE.

4. T. Hochata  
PIN-TAILED G.

5. T. Canadensis  
SPOTTED G.

6. T. paradoxus  
HETEROCITOUS G.

Published as the Act directs, Jan 1<sup>st</sup> 1841, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.









GENUS TETRAO  
(Grouse)

- |                     |                          |                           |                         |                      |                    |                         |
|---------------------|--------------------------|---------------------------|-------------------------|----------------------|--------------------|-------------------------|
| 1. <i>T. Perdix</i> | 2. <i>T. ferrugineus</i> | 3. <i>T. gibraltarius</i> | 4. <i>T. Marylandus</i> | 5. <i>T. viridis</i> | 6. <i>T. Major</i> | 7. <i>T. variegatus</i> |
| COMMON PARTRIDGE    | HACKLED P.               | GIBRALTAR STOEED QUAIL    | MARYLAND Q.             | GREEN Q. MILE        | GREAT TINAMOU      | VARIEGATED              |







ORNITHOLOGY.  
*Div.<sup>n</sup> Land Birds — Order PASSERES.*  
 GENUS COLUMBA (Pigeon)

PLATE II  
 of Order P.<sup>s</sup>



*C. Chalcoptera.* 1. *C. Crythoptera.* 2. *C. Macroura.* 3. *C. Nicobarica.* 4. *C. Curvirostra.* 5. *C. Capensis.* 6. *C. Coronata.* 7.  
 ONZE WINGED P. GARNET WINGED P. GREAT TAILED P. NICOBAR P. HOOK BILLED P. CAPE TURTLE. GREAT CROWNED P.

Published as the Act directs. June 1. 1868. by Longman Hurst Rice & Orme Paternoster Row.









GENUS ALAUDA

(Lark)

1. A. Capensis

CAPE L.

2. S. Militaris

MAGELLANTIC S.

G. STURNUS

(Starling)

3. S. Carniculatus

WATLED S.

G. CAPRIMULGUS

(Goatsucker)

4. C. Grandis

GRAND G.

5. C. Longipennis

LEONAG







# ORNITHOLOGY.

Div.<sup>1</sup> Land Birds — Order PASSERES.

PLATE L



## GENUS TURDUS

(Thrush)

- |                         |                       |                       |                         |                     |                         |
|-------------------------|-----------------------|-----------------------|-------------------------|---------------------|-------------------------|
| 1. <i>T. philomelos</i> | 2. <i>T. tyrannus</i> | 3. <i>T. naumanni</i> | 4. <i>T. viscivorus</i> | 5. <i>T. merula</i> | 6. <i>T. philomelos</i> |
| MOCKINGB.               | KINGB.                | SPECTACLED            | THICK BILLED            | BLUE THROATED       | LONG BILLED             |

Published under the authority of the Trustees of the British Museum, by J. Smith, Printer, Strand.

Alston sculp.









GENUS AMPELIS

(Chatterer)

1. A. Gurneulata

CIRCULATED C.

2. A. Gotinga

PURPLE BREASTED C.

3. A. Pompadour

POMPADOUR C.

4. A. Gurneulata

RED C.

G. COLIUS

(Coly)

5. C. Capensis

CAPE C.

6. C. Erythropus

WHITE-BACKED C.







# ORNITHOLOGY.

Div.<sup>n</sup> 1<sup>st</sup> Land Birds — Order PASSERES.

PLATE I



## GENUS LOXIA (Grosbeak)

- |                      |                        |                         |                          |                         |                      |                           |
|----------------------|------------------------|-------------------------|--------------------------|-------------------------|----------------------|---------------------------|
| 1. <i>L. lineola</i> | 2. <i>L. cucullata</i> | 3. <i>L. philippina</i> | 4. Nest of Philippine G. | 5. <i>L. cardinalis</i> | 6. <i>L. astrild</i> | 7. <i>L. flabellifera</i> |
| LINEATED G.          | CRESTED DOMINICAN G.   | PHILIPPINE G.           |                          | CARDINAL G.             | WIDEN BILLED G.      | FAN TAILED G.             |

Published at the Art direct. Dep't 1859, by Longman, Hurst, Rees & Orme, Ruckwater Bow.







# ORNITHOLOGY.

Div. 1<sup>st</sup> Land Birds — Order 6 PASSERES.

PLATE VI



## GENUS EMBERIZA

(Bunting)

1. *E. Paradisea*  
WHIDAH B.

2. *E. Cris*  
PAINTED B.

3. *E. Regia*  
SLIFT-TAILED B.

4. *E. provincialis*  
MUSTACHOE B.

5. *E. Americana*  
BLACK THROATED B.

6. *E. Hortulana*  
ORTOLAN B.

Published as the Act directs, Jan. 1<sup>st</sup> 1826, by Longman, Hurst, Rees, Orme & Brown, PATERNOSTER-ROW.









G. TANAGRA.  
(Tanager)

1. T. Talao. 2. T. Capitalis. 3. T. Jacapa.

PARADISE T. CAPITAL T. RED-BREASTED

4. F. Ignita.

FIRE FINCH.

GENUS FRINGILLA.  
(Finch)

5. F. Flammea.

CRIMSON CROWNED F.

6. F. Bequaalus.

BLUE BELLIED F.

7. F. Psittacea.

PARROT F.

G. PHYTOTOMI

8. P. Rara.

CHILI PHYTOTOMA.







Order PASSERES.



GENUS MUSCICAPA

(Fly Catcher)

1. *M. Bicolor* 2. *M. Barbata* 3. *M. Tyrannus* 4. *M. Malachura* 5. *M. Flabellifera*

BLACK & WHITE F.C.

WHISKERED F.C.

FORKED TAILED F.C.

SOFT TAILED F.C.

FAN TAILED F.C.

GENUS MOTACILLA

(Warbler)

6. *Mot. Cyanca* 7. *M. Madraspatensis*

SUPERB WHEAT EAT

INDIA F. 16-1841.









*G. MOTACILLA*  
Warbler

1 *M. pilcata*

BLACK-HEADED W.

2 *M. spinicauda*

THORN-TAILED W.

3 *M. succia*

BLUE-THROATED W.

4 *P. rupicola*

ROCK M.

GENUS *PIPRA* (Manakin)

5 *P. striata*

STRIPED-HEADED M.

6 *P. leucocephala*

WHITE-CAPPED M.

7 *P. punctata*

SPECKLED M.









GENUS PARUS

(Titmouse)

1. *P. Macrocephalus*  
GT HEADED T.

2. *P. cristatus*  
CRESTED T.

3. *P. audaci*  
R. HEADED S.

4. *H. esculenta*  
ESCULENT S.

GENUS HIRUNDO

(Swallow)

5. *H. tahitica*  
TAHITIEN S.

6. *H. pelagica*  
ACCULENT S.





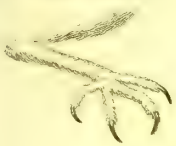


# ORNITHOLOGY.

Elementary.

PLATE I.

*Strix flammea*



*Strix passerina*



*Strix stridula*



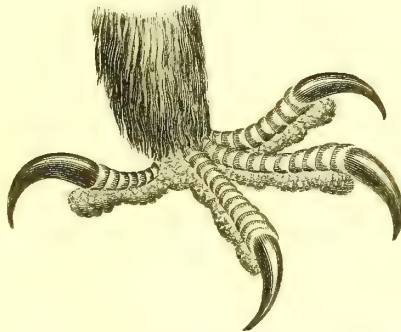
*Strix brachyotos*



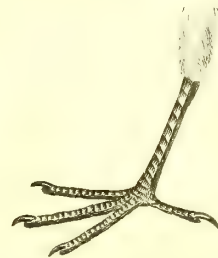
*Tetrao lagopus*



*Falco Chrysaetos*



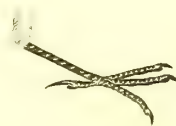
*Ardea minuta*



*Motacilla regulus*



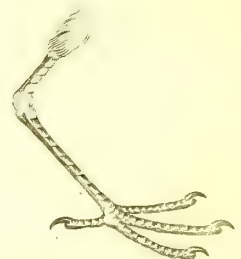
*Alauda obscura*



*Tetrao tetrix*



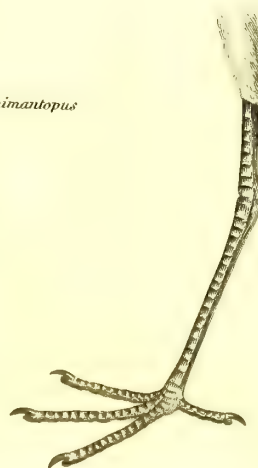
*Glareola austriaca*



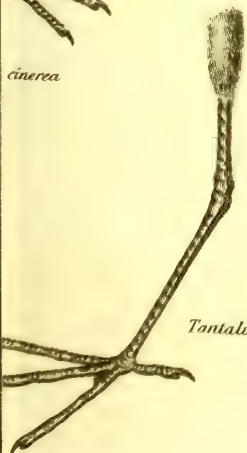
*Charadrius himantopus*



*Platalea ajaja*



*Tantalus igneus*



*Haematopus ostralegus*





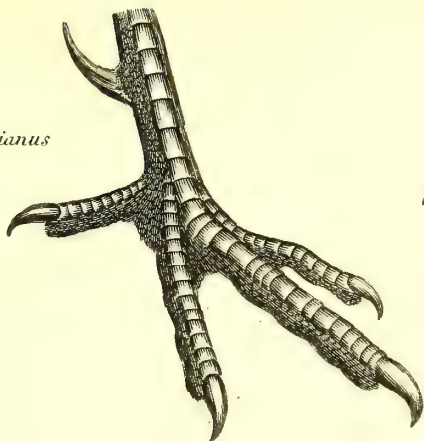




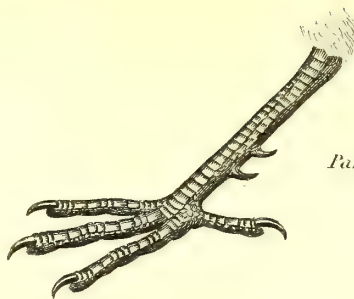


*Parus*

*Phasianus*



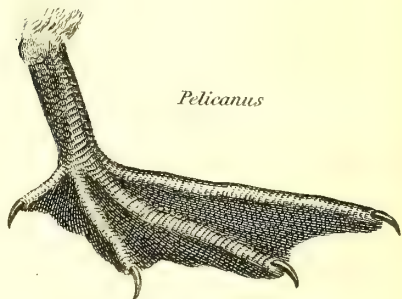
*Pavo*



*Corvus*



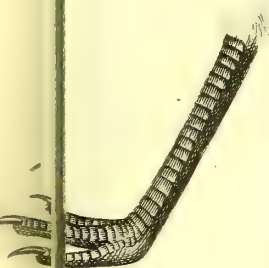
*Pelicanus*



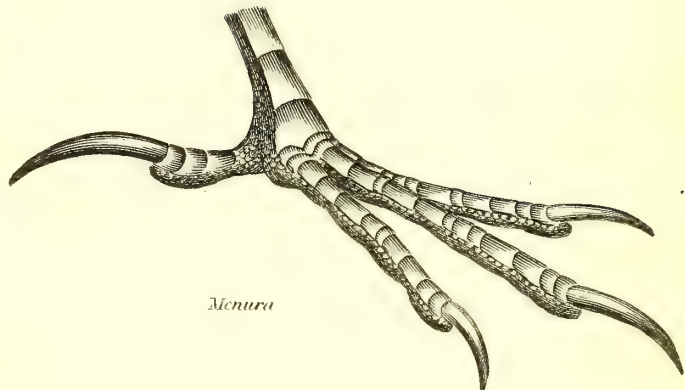
*Struthio Camelus*



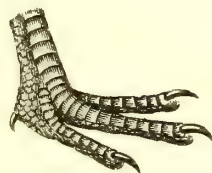
*Struthio cassuarius*



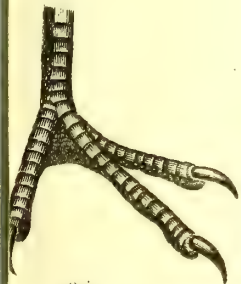
*Menura*



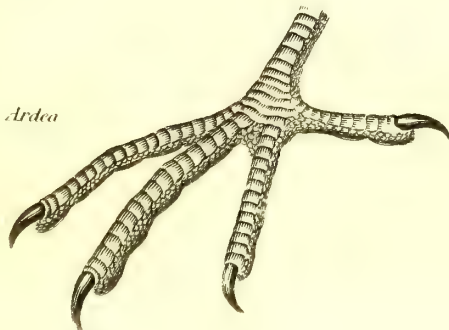
*Cercopsis*



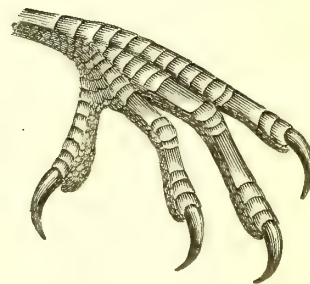
*Ovis*



*Ardea*



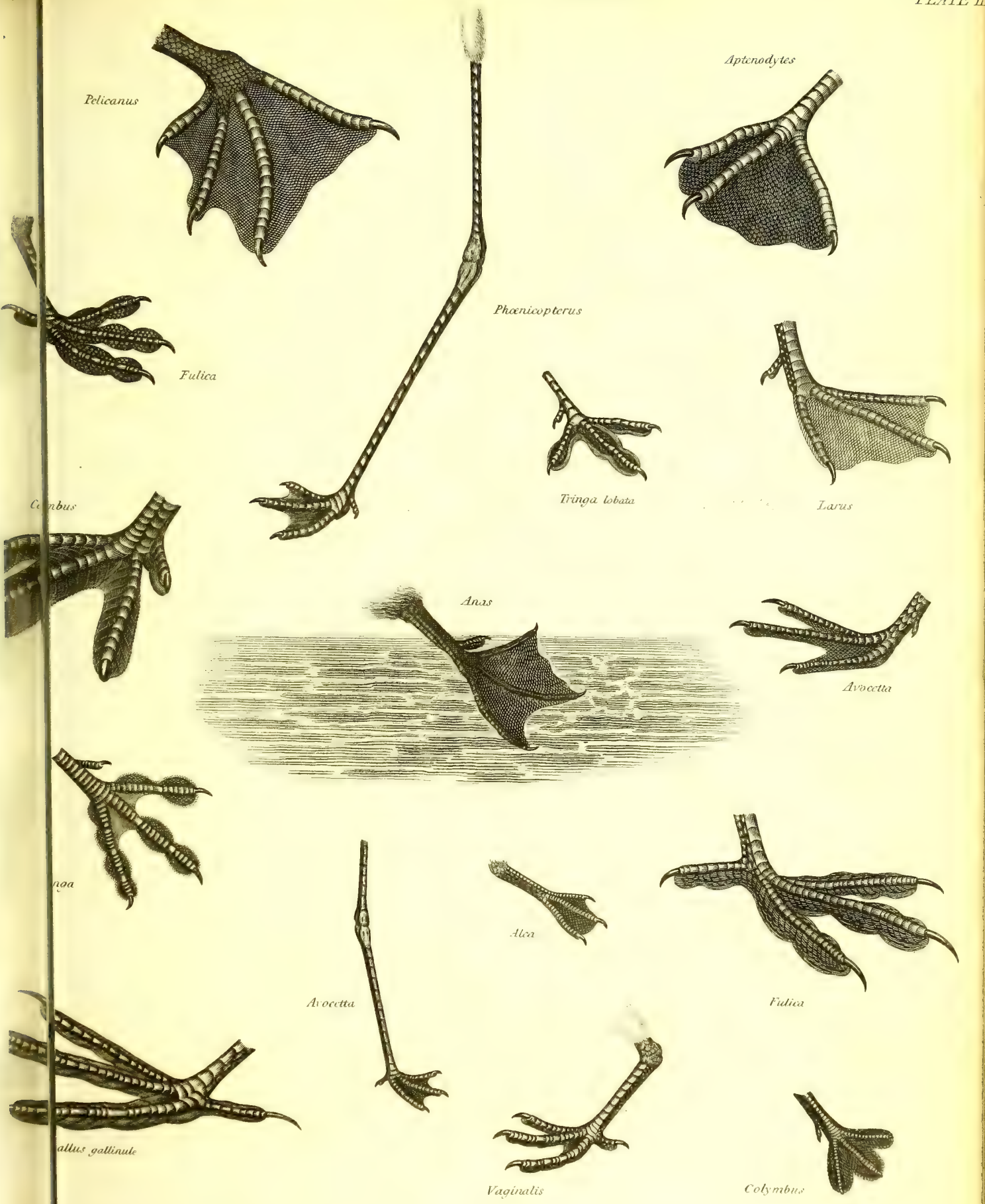
*Paradisca*













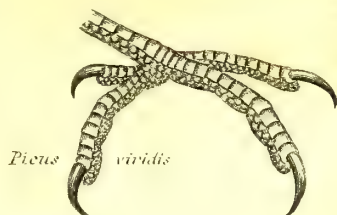




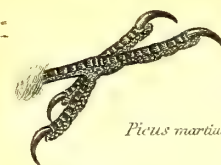
Elementary.



*Musopliagus*



*Picus viridis*



*Picus martius*



*Alauda obscura*



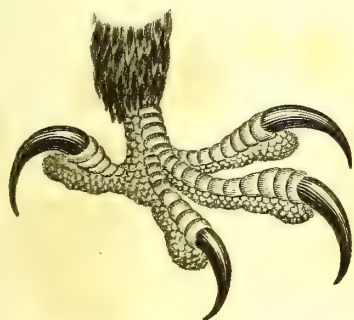
*Colius*



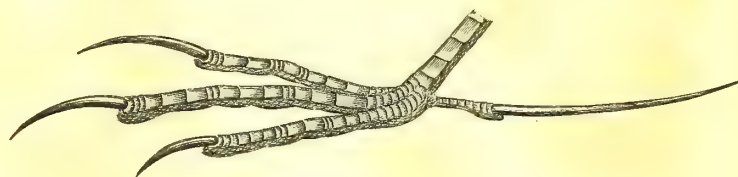
*Alcedo*



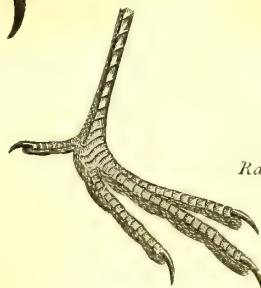
*Alauda*



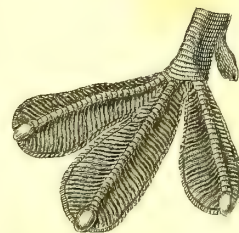
*Falco*



*Parra*



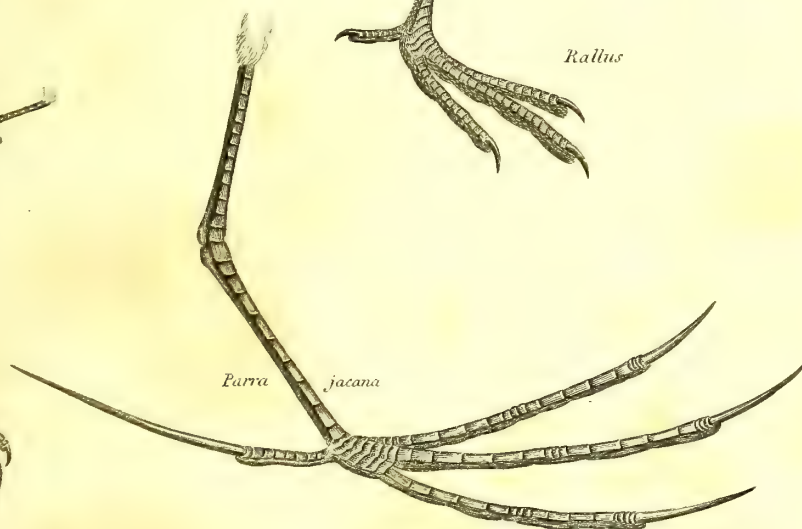
*Rallus*



*Colymbus Podiceps*



*Sterna*



*Parra jacana*



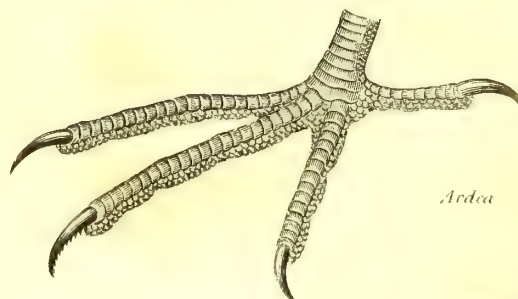
*Sitta*



*Motacilla*



*Glareola*



*Ardea*

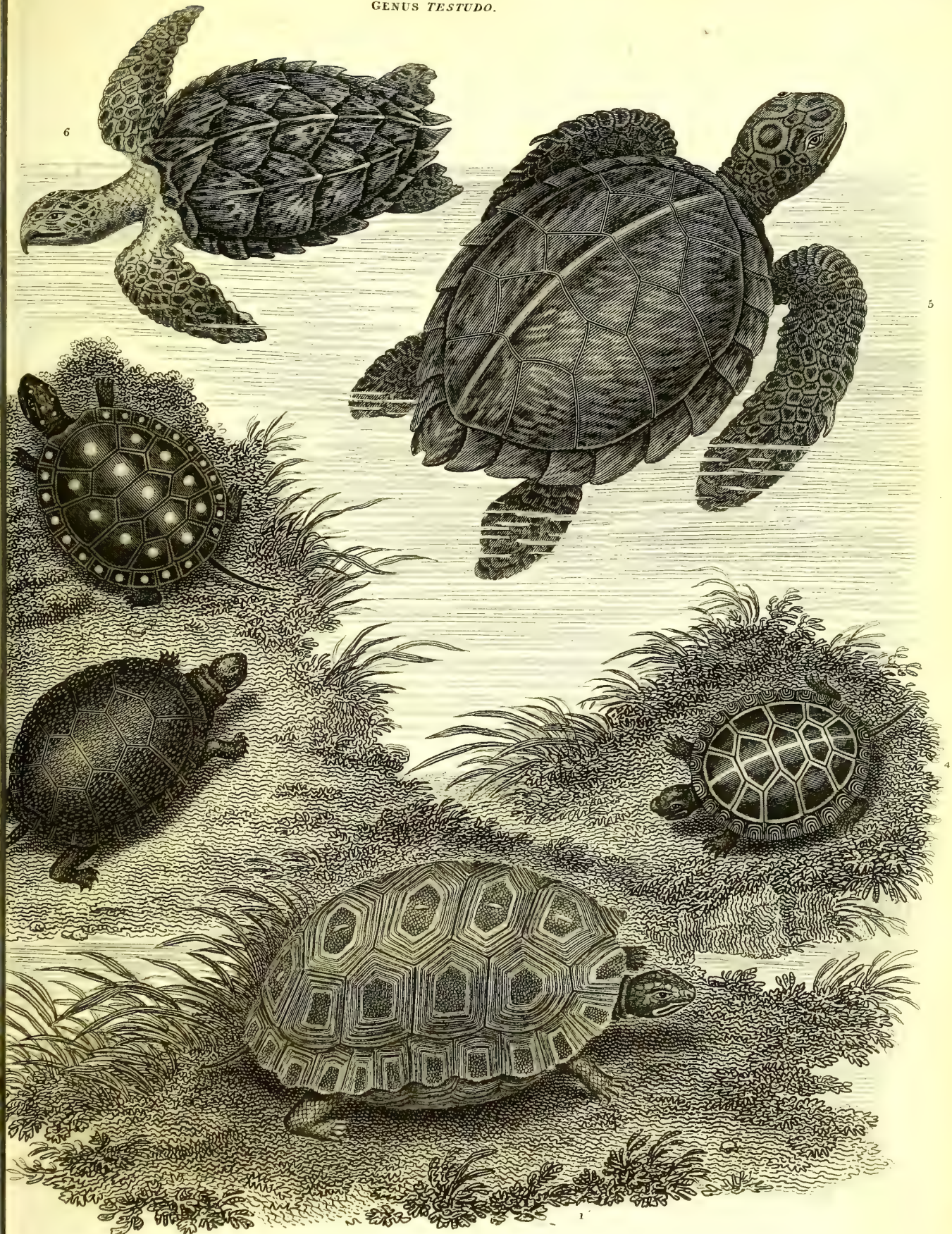


*Pipra*







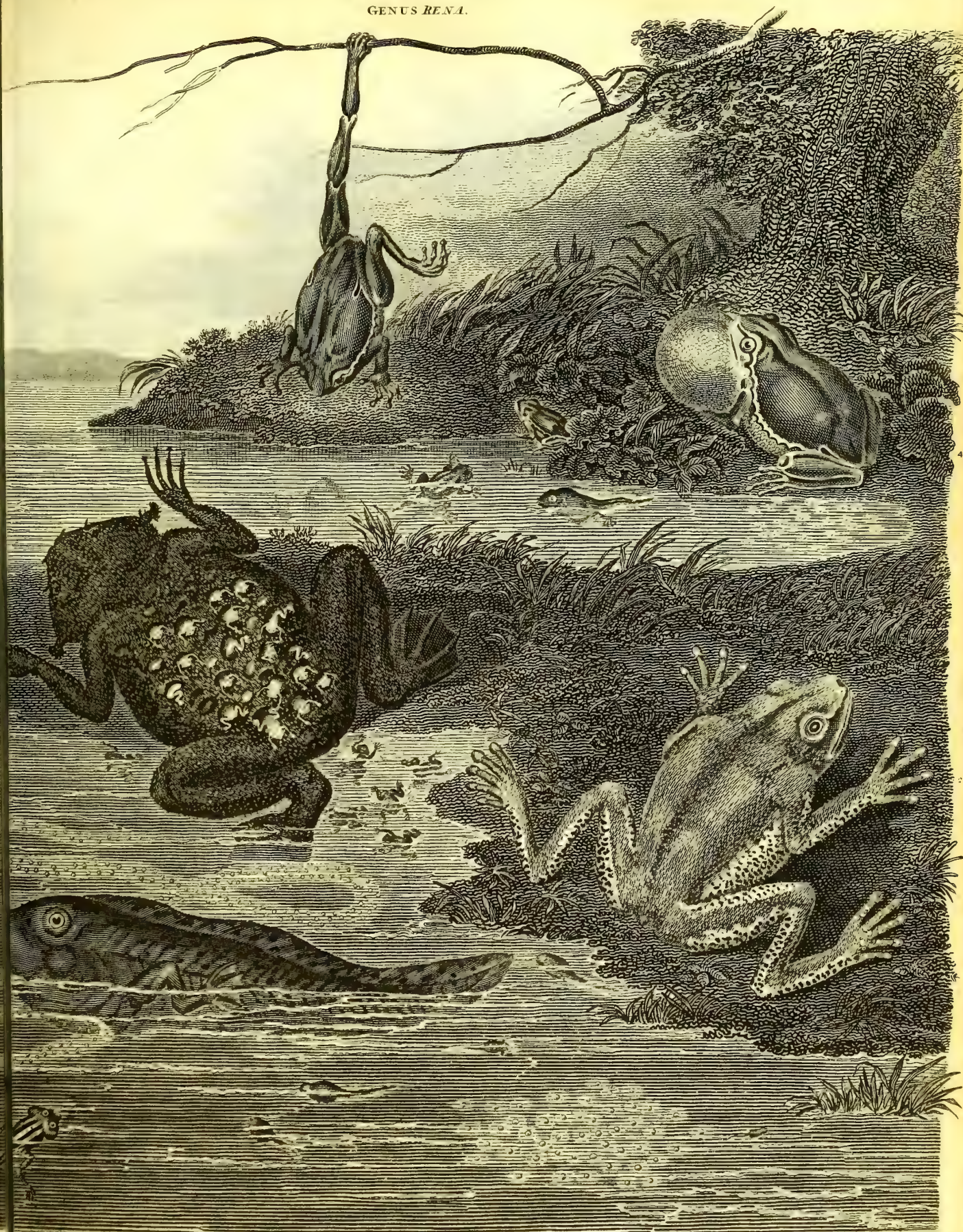


1 *T. denticulata* 2 *T. europaea* 3 *T. guttata* 4 *T. picta* 5 *T. mydas* 6 *T. imbricata*  
 DENTICULATED TORTOISE GREEN SPECKLED T. SPOTTED T. PAINTED T. ESCULENT GREEN TURTLE HAWKSBILL T.









## Family Frog - Family Toad

1.R. *Pipa*.2.R. *Bicolor*.3. *Fish like Tadpole*4.R. *Arborea*

SUBINAM TOAD with its Young.

TWO COLOURED FROG.

of a PARADOXIC FROG.

TREE FROG









1. *L. Salamandra* 2. *L. Vittata* 3. *L. Chameleon* 4. *L. Agilis* 5. *L. Lemniscata*  
 SALAMANDER FORKED L. CHAMELEON GREEN L. EIGHT LINED L.

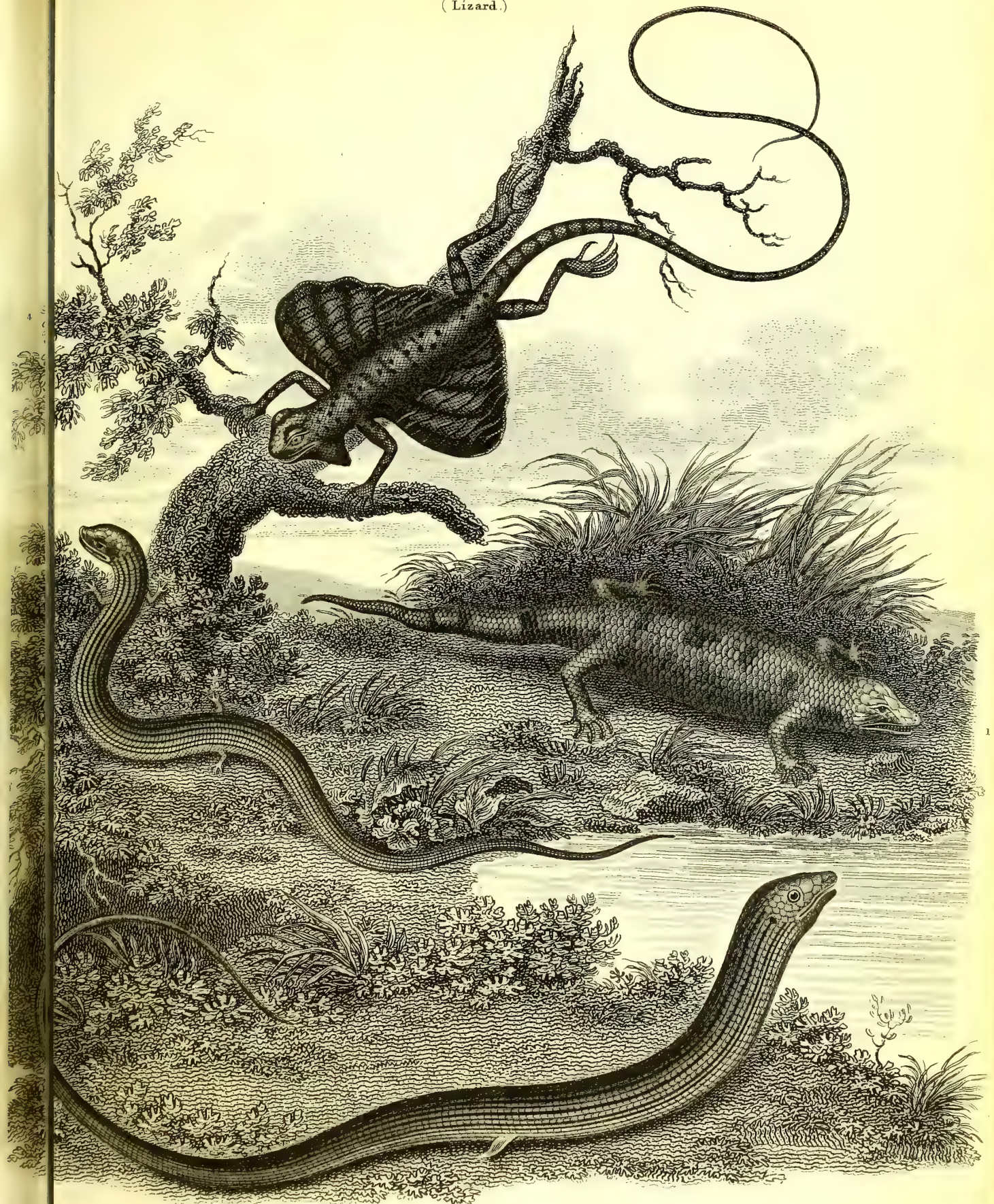






GENUS *LACERTA*. G. DRACO.

(Lizard.)



1. *L. scincoides*

2. *L. chalcides*

3. *L. apus*

4. *L. draco*

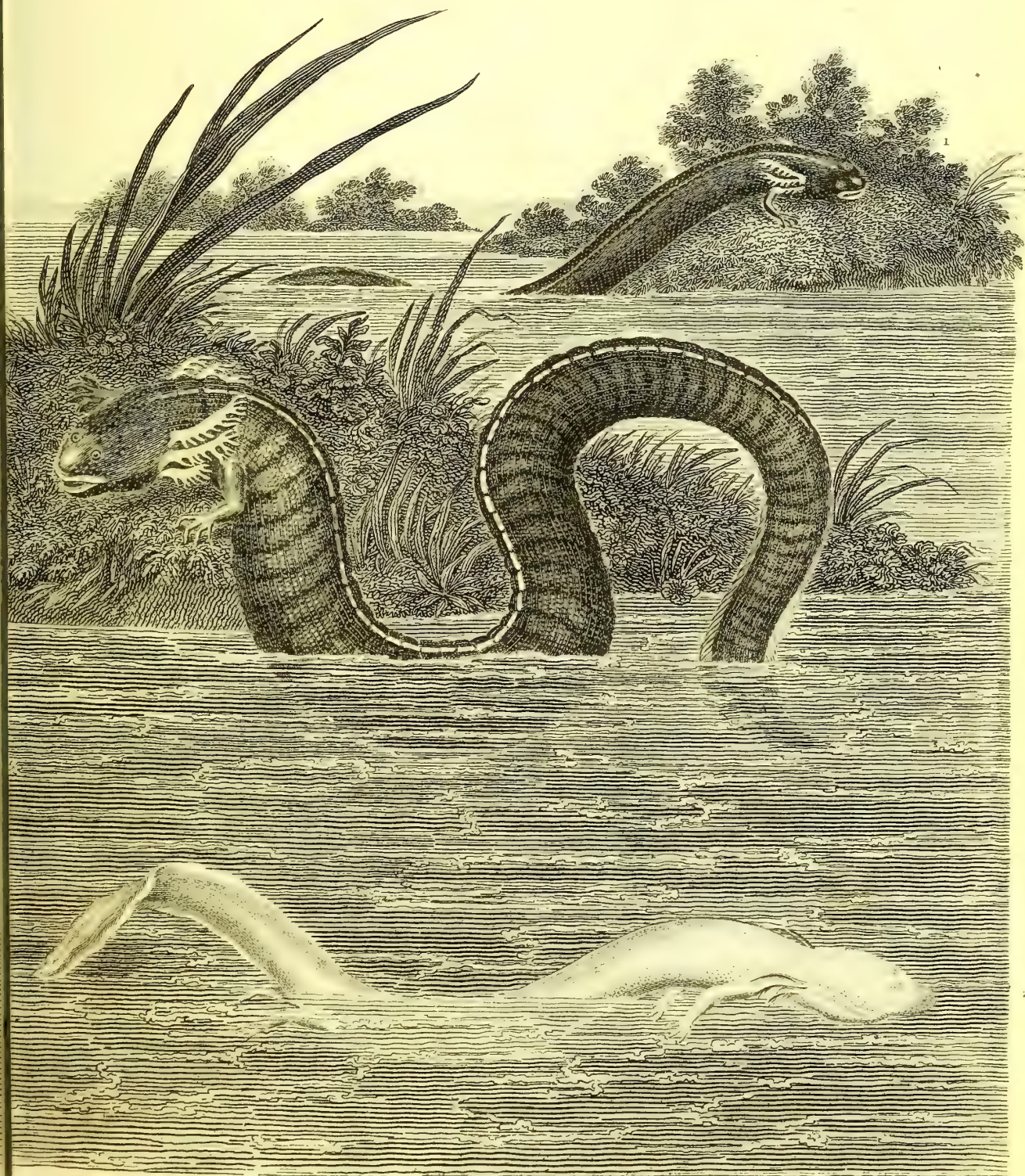
AUSTRALASIAN GALLIWASP    CHALCIDES L.    APODAL L.    FLYING DRAGON

Milton sculp









*S. Lacertina*

*S. Inguina*

LEE SHUTTS &

IN L.S.



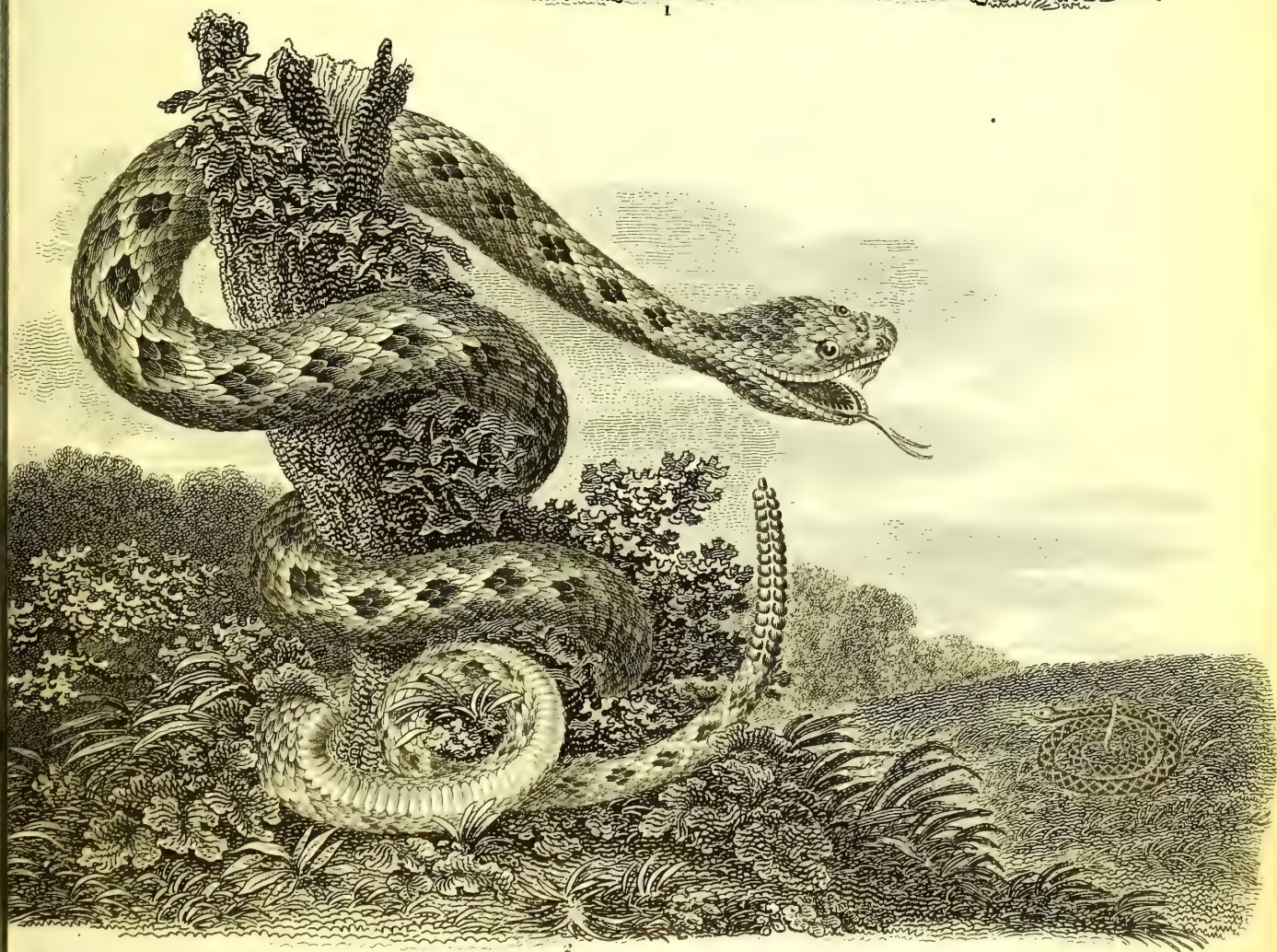
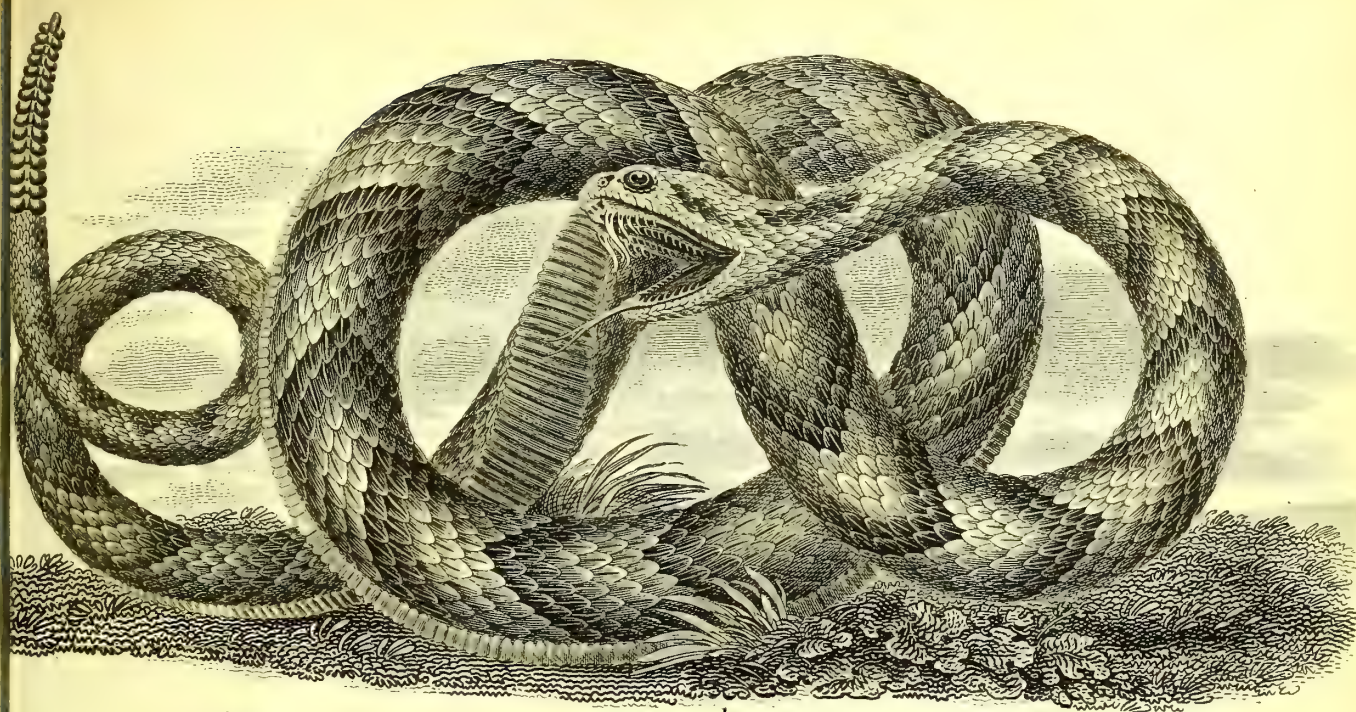




inn.

AMPHIBIA.  
GENUS CROTALUS.

PLATE II.



(Rattle Snake)

1. *C. horridus*  
BANDED R.S.

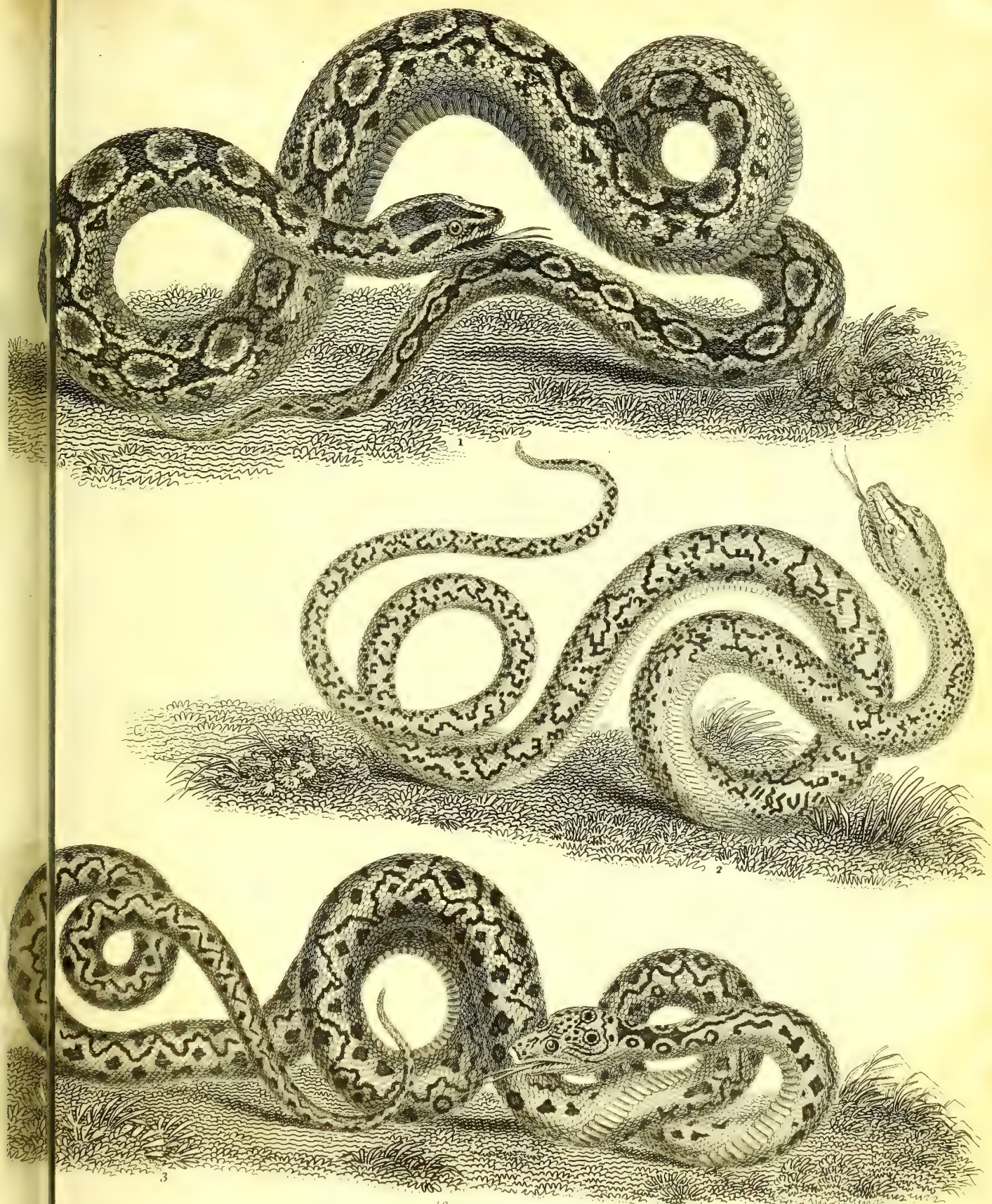
2. *C. durissus*  
STRIPED R.S.

Published as the Act directs, Nov. 1<sup>st</sup> 1808, by Longman Hurst, Rees & Orme, Paternoster-Row.









(Serpent)

1. B. Constrictor  
GREAT B.

2. B. Phrygia  
EMBROIDERED B.

3. B. Hortulana  
GARDEN B.

Published as the Act directs Aug. 1. 1809. by Longman Hurst, Rees & Orme, Stationers-Road.









(Viper)

1. *C. nasicornis*

2. *C. Cerastes*

3. *C. Naja*

HORN NOSE V.

CERASTES V.

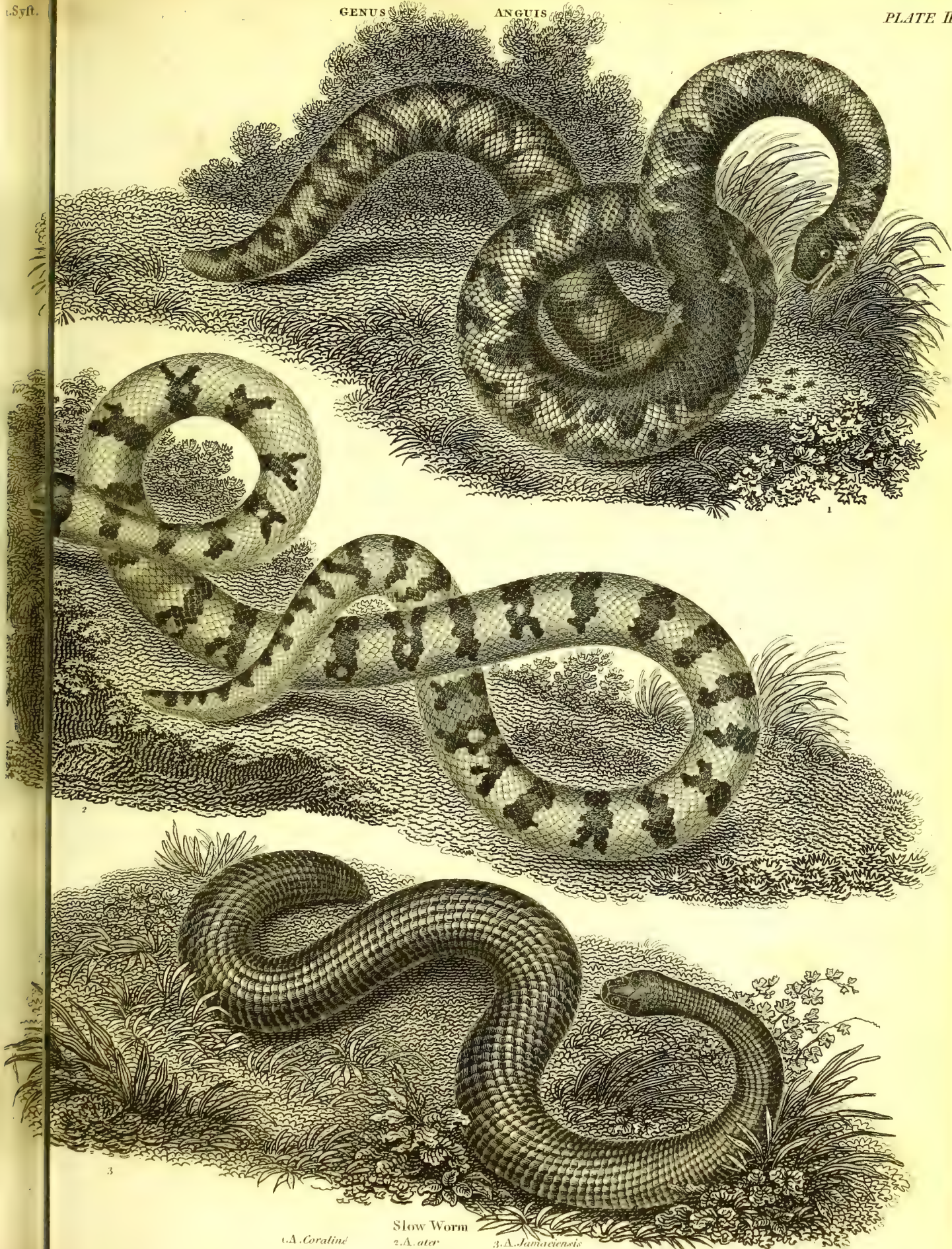
NAGOO or SPECTACLE V.

Published as the Act directs, April 1<sup>st</sup> 1809, by Longman, Hurst, Rees & Orme, Paternoster Row.









Slow Worm

1. *A. Coralline*  
CORAL S.

2. *A. ater*  
BLACK-BANDED S.

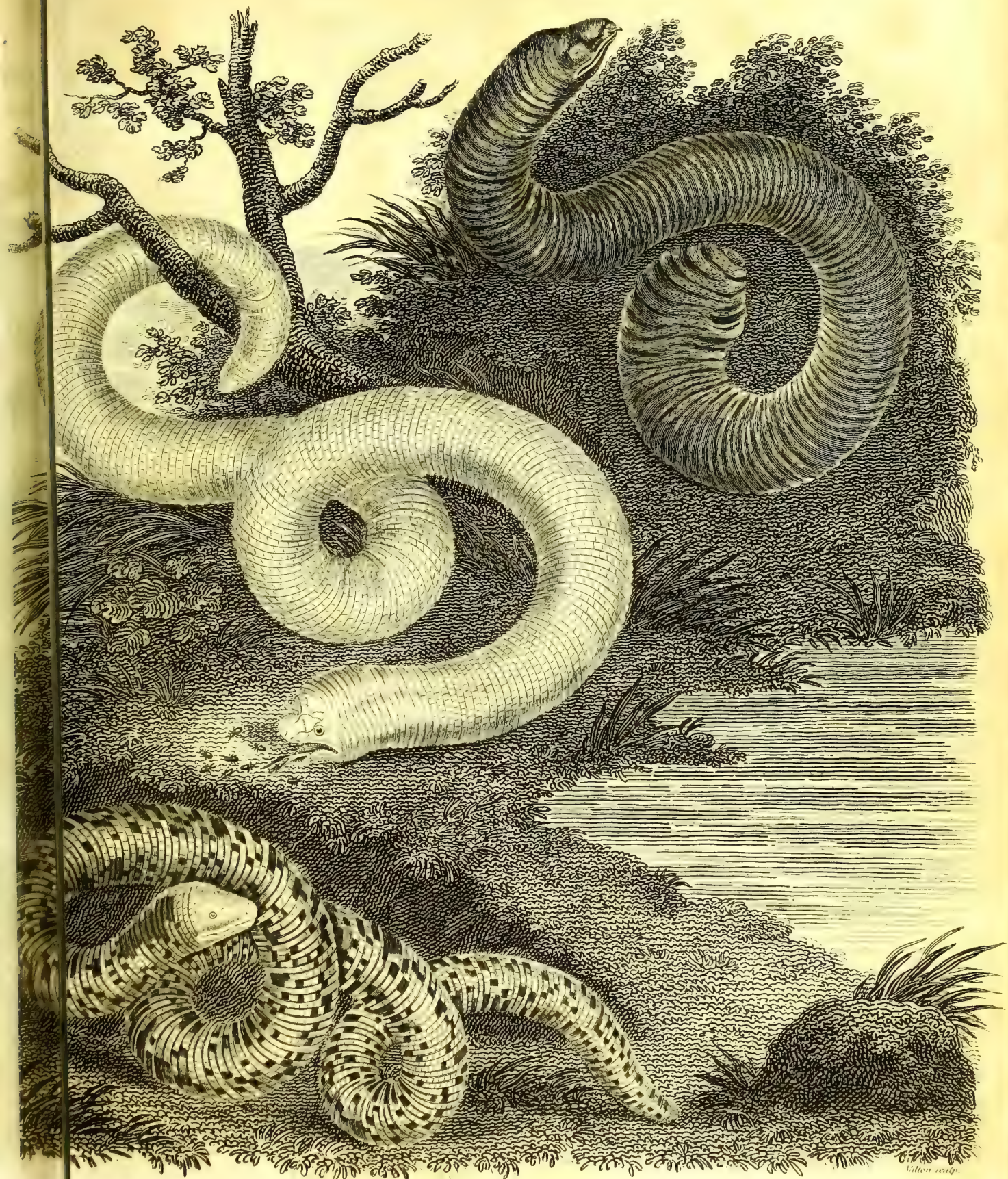
3. *A. Jamaicensis*  
JAMAICA S.







GENUS AMPHISBÆNA - GEN. CÆCILIA.

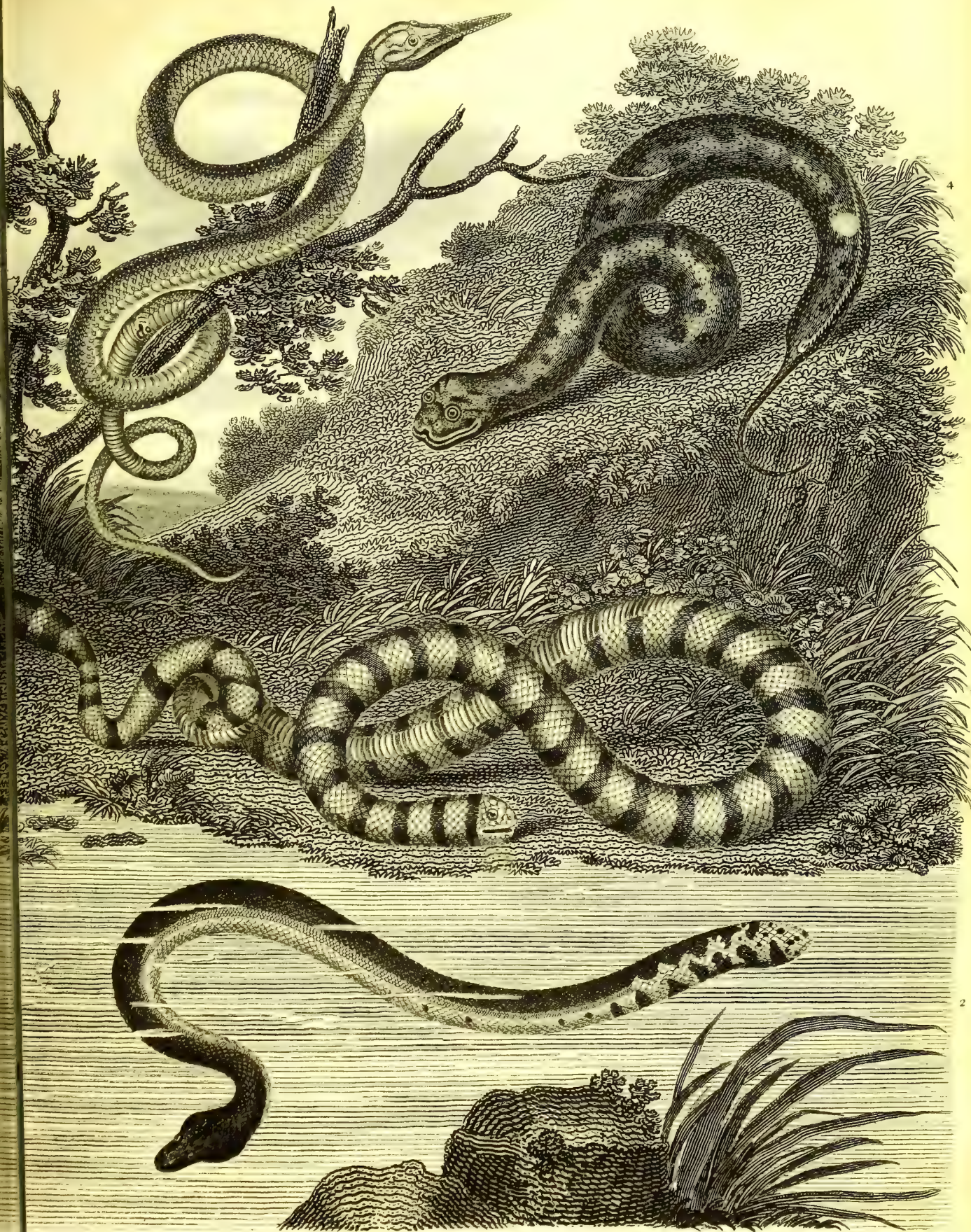


1. *A. alba*. 2. *A. fuliginosa*. 3. *C. tentaculata*  
WHITE. 4. *FULIGINOSA*. 5. *EEL SHAPED C.*









1. *H. Colubrinus*  
COLUBRINE H.

2. *H. bicolor*  
BLACK BACKED H.

3. *A. nasuta*  
SNOWED L.

4. *A. dubius*  
DOUBTFUL A.



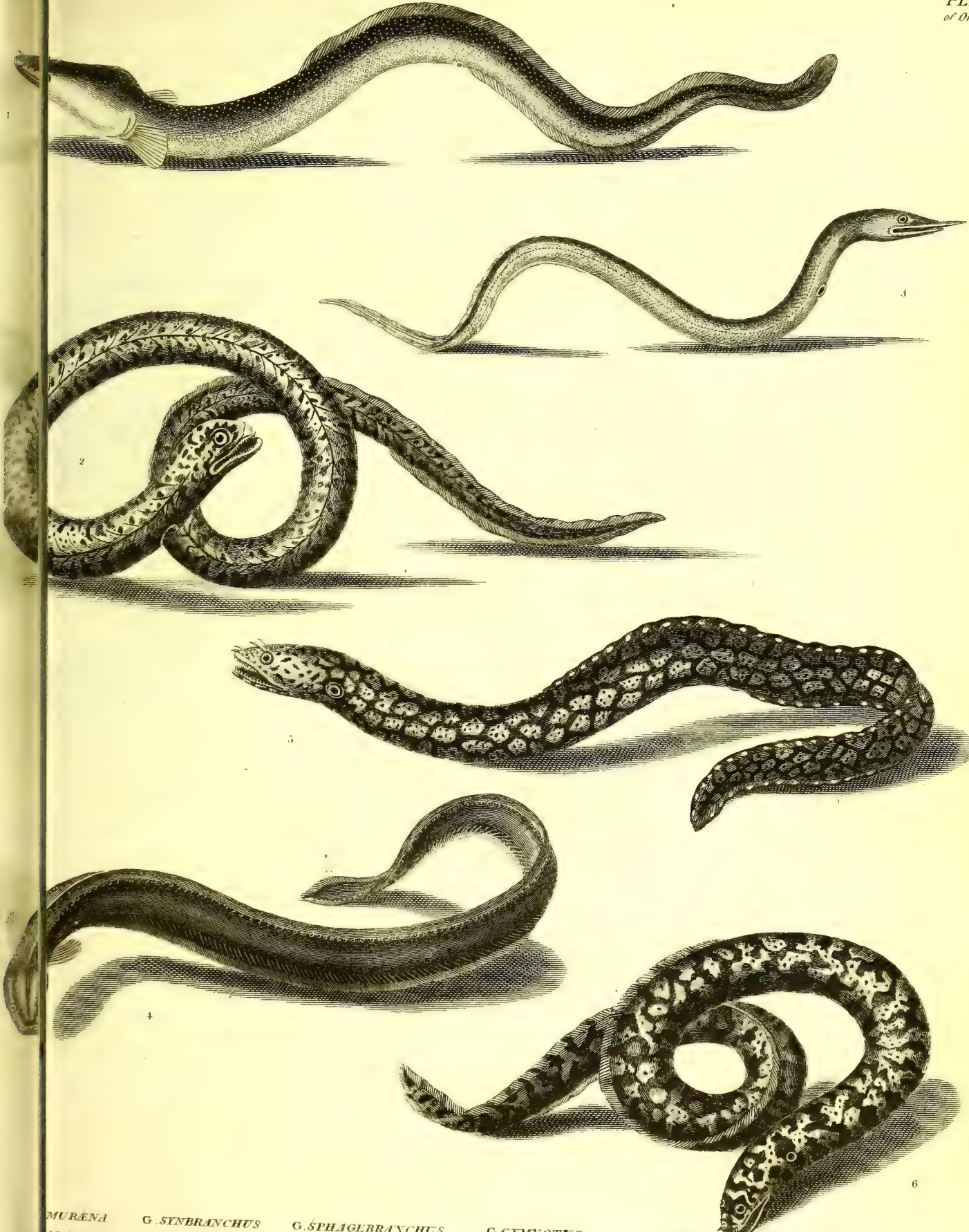




# ICHTHYOLOGY.

ORDER APODES.

PLATE I  
of Order Apo



MURENA  
M. Anguilla  
EL MURENA

G. SYNBRANCHUS

2. Syn. Marmoratus

MARbled SYNBRANCHUS

G. SPHAGEBRANCHUS

3. Spha. Rostriatus

SNOUTED SPHAGEBRANCHUS

G. GYMNOTUS

4. Gym. Electricus

ELECTRIC GYMNOTUS

GENUS

GIMNOTHORAX

5. Gymn. Murena

EEL GIMNOTHORAX

6. Gymn. Catenatus

CHAIN GYMNOTHO?

Milton sculp

Published as the Act directs. Sep. 1. 1802 by Longman Hurst, Rees, Orme & Brown, Stationers, London.





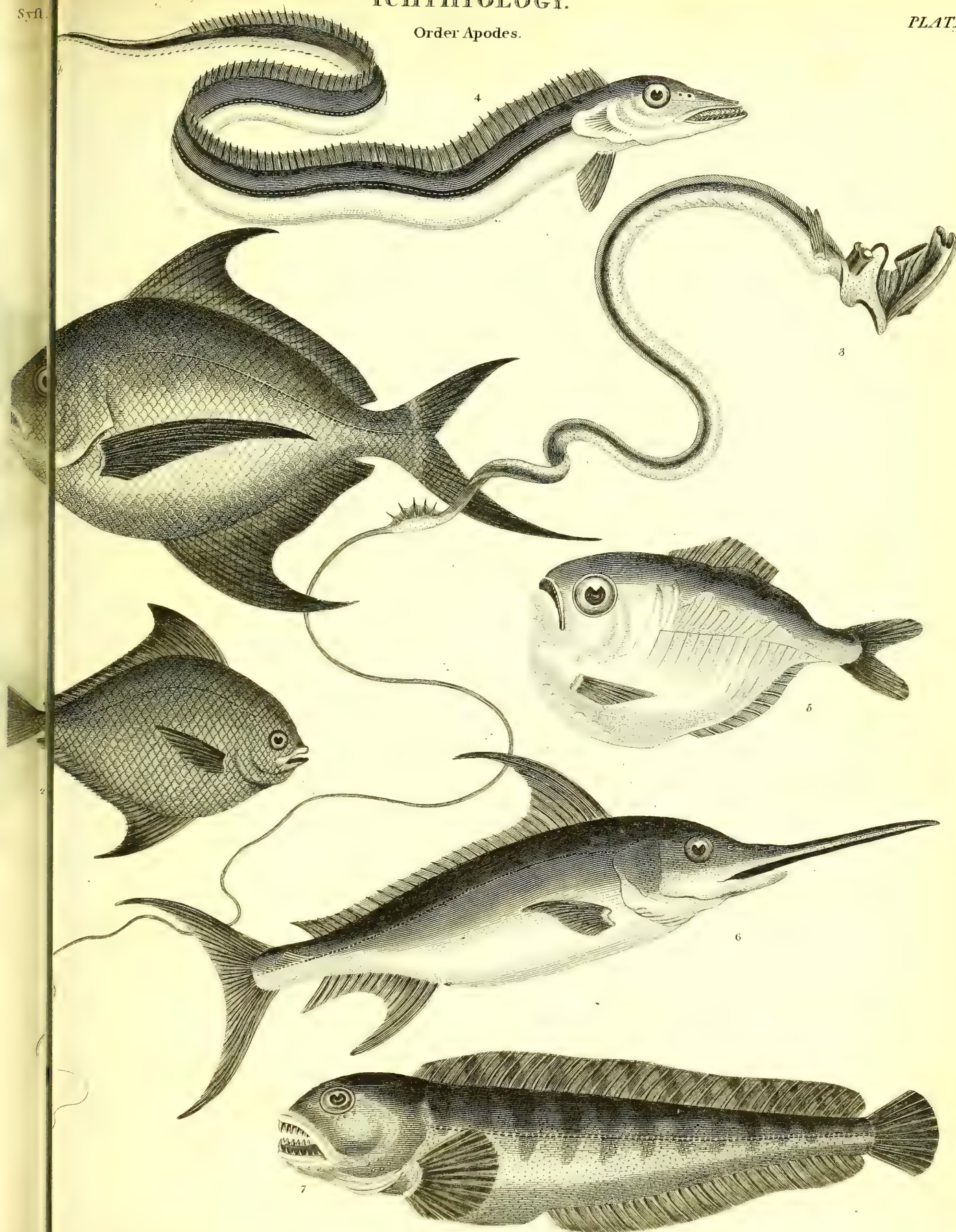


Syn.

# ICHTHYOLOGY.

PLATE II.

Order Apodes.



GENUS STROMATEUS	G. STYLOPHORUS	G. TRICHIURUS	G. STERNOPTIX	G. XIPHIAS	G. ANARHICUS
1. <i>Str. cinereus</i>	3. <i>Sty. chordatus</i>	4. <i>T. argenteus</i>	5. <i>Ste. diaphana</i>	6. <i>X. gladius</i> (Sword Fish)	7. <i>A. lupus</i> (Wolf Fish)
2. — <i>niger</i>					

Published as the Act directs, Nov. 1. 1813, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

Milton sculp.

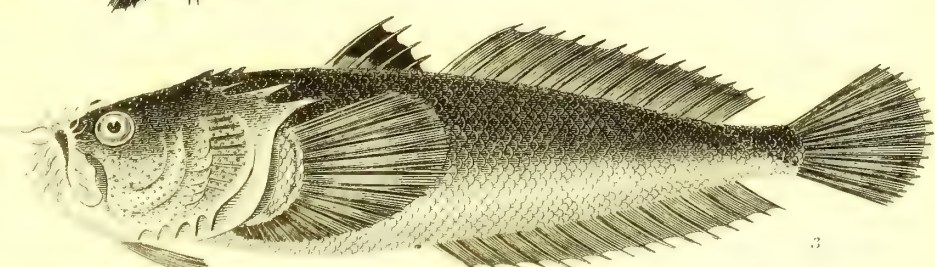
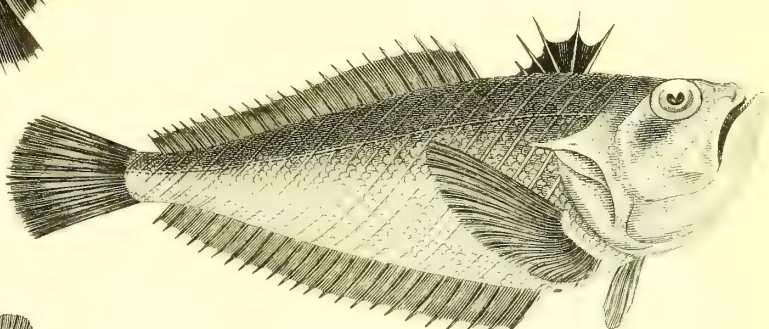
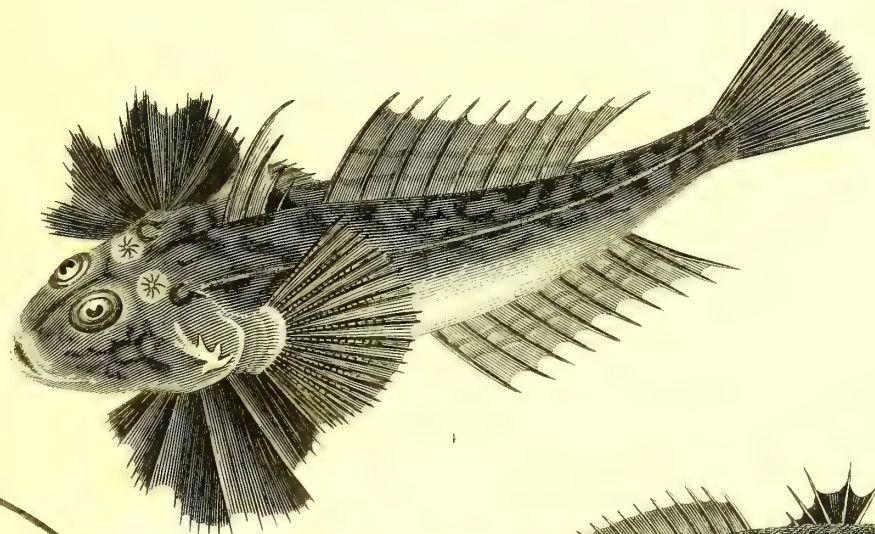
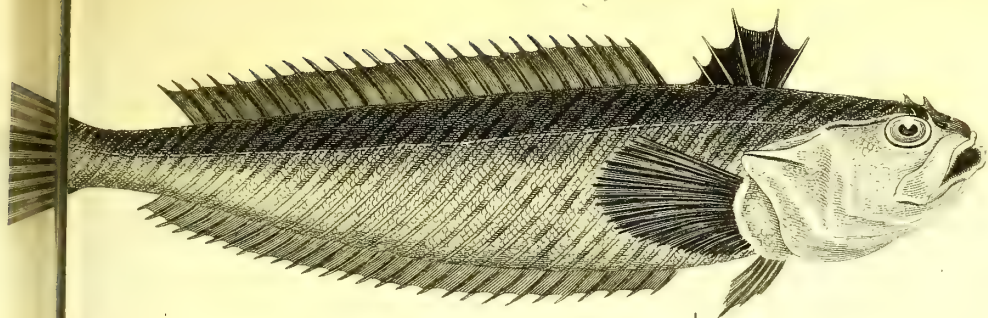






ICHTHYOLOGY.  
ORDER JUGULARES.

PLATE I of  
Order Jug



GEN. TRACHINUS  
(Weever)  
1 T. major    2 T. draco  
GREAT W.    SMALL W.

G. URANOSCOPUS  
(Star-gazer)  
3 U. scaber  
ROUGH S.

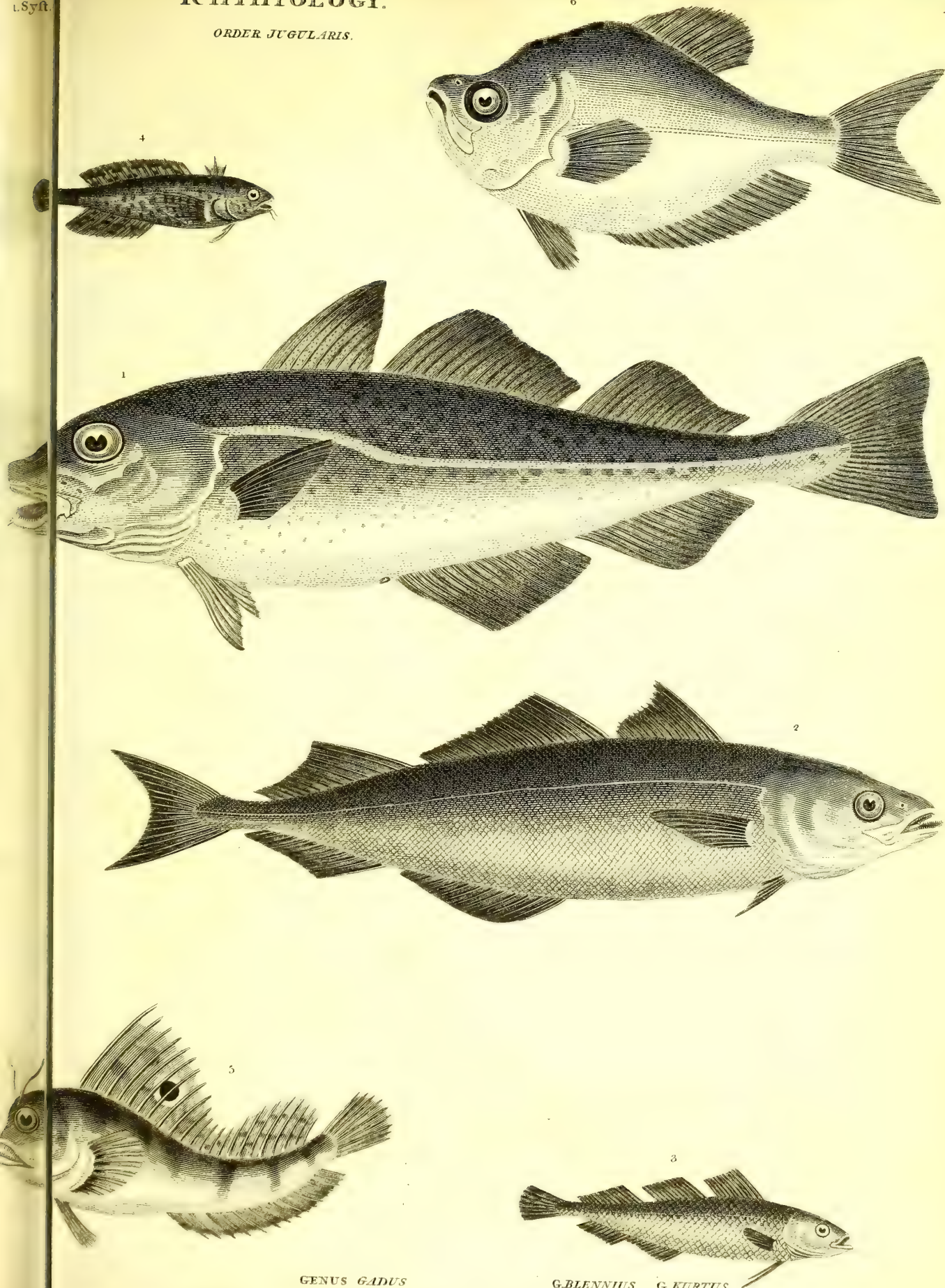
G. CALLIONYMUS  
(Dragonet)  
4 C. dracunculus    5 C. lyra  
SORDID D.    GEMMOUS D.







ORDER JUGULARIS.



GENUS GADUS

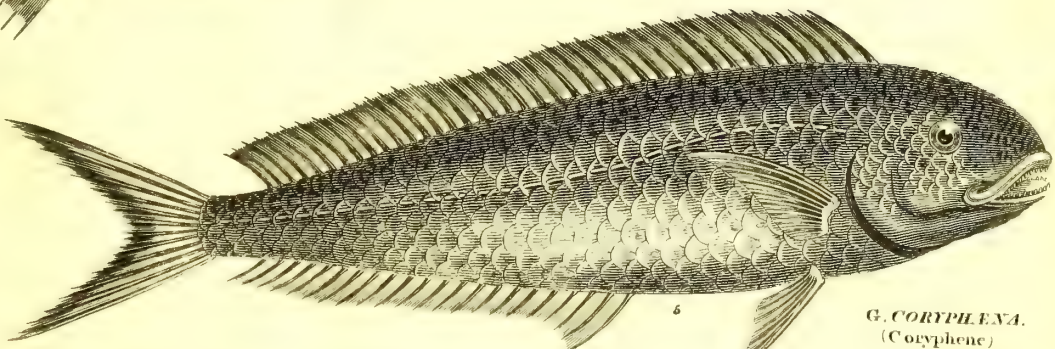
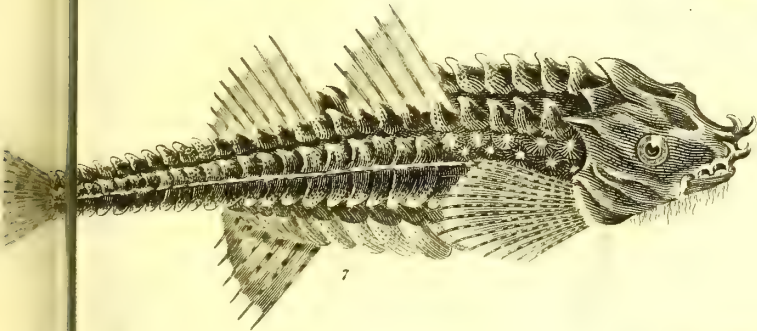
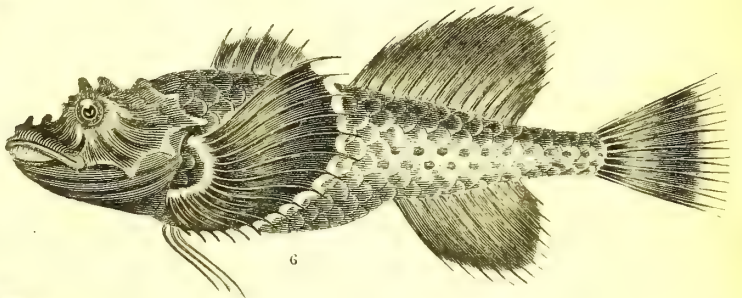
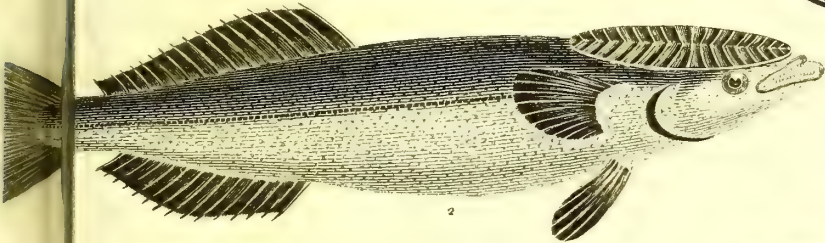
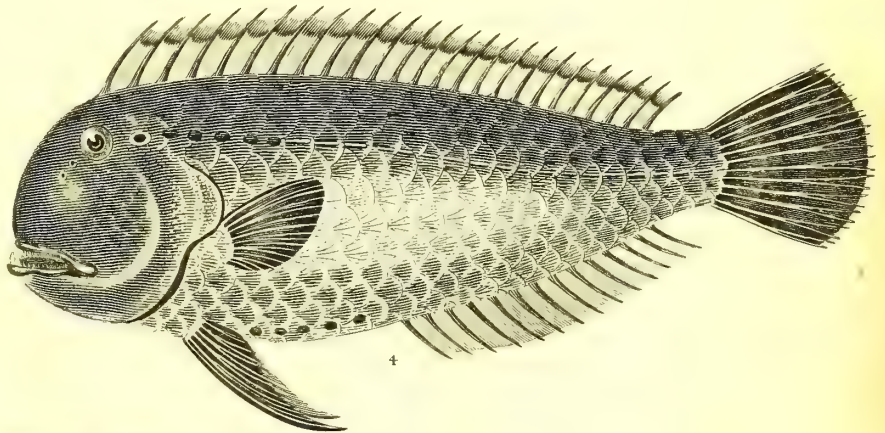
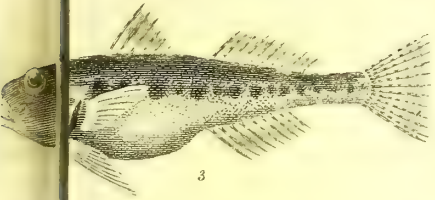
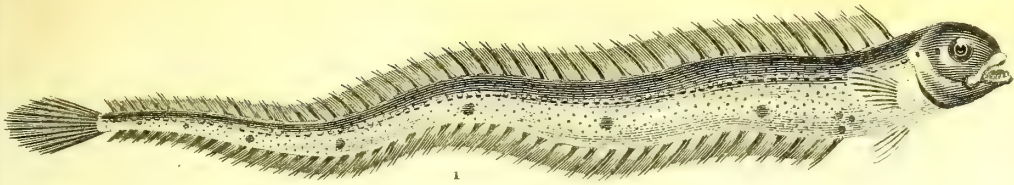
G. BLENNIUS    G. KURTUS

1. *G. morhua* — 2. *G. carbonarius* — 3. *G. minutus* — 4. *G. tau* — 5. *B. maris* — 6. *K. indicus*  
(Cod)                      (Coal Fish)                      (Poor)









COTTUS.  
(all Head)  
Grammus.  
GRUNNG BULL HEAD.  
7. Metaphractus.  
LEDDBH?

GEN. CEPOLA.  
(Ribband Fish)  
1. C. Tonia.

G. ECHENEIS.  
(Sucking Fish)  
2. E. Remora.  
MEDITERRANEAN SE.

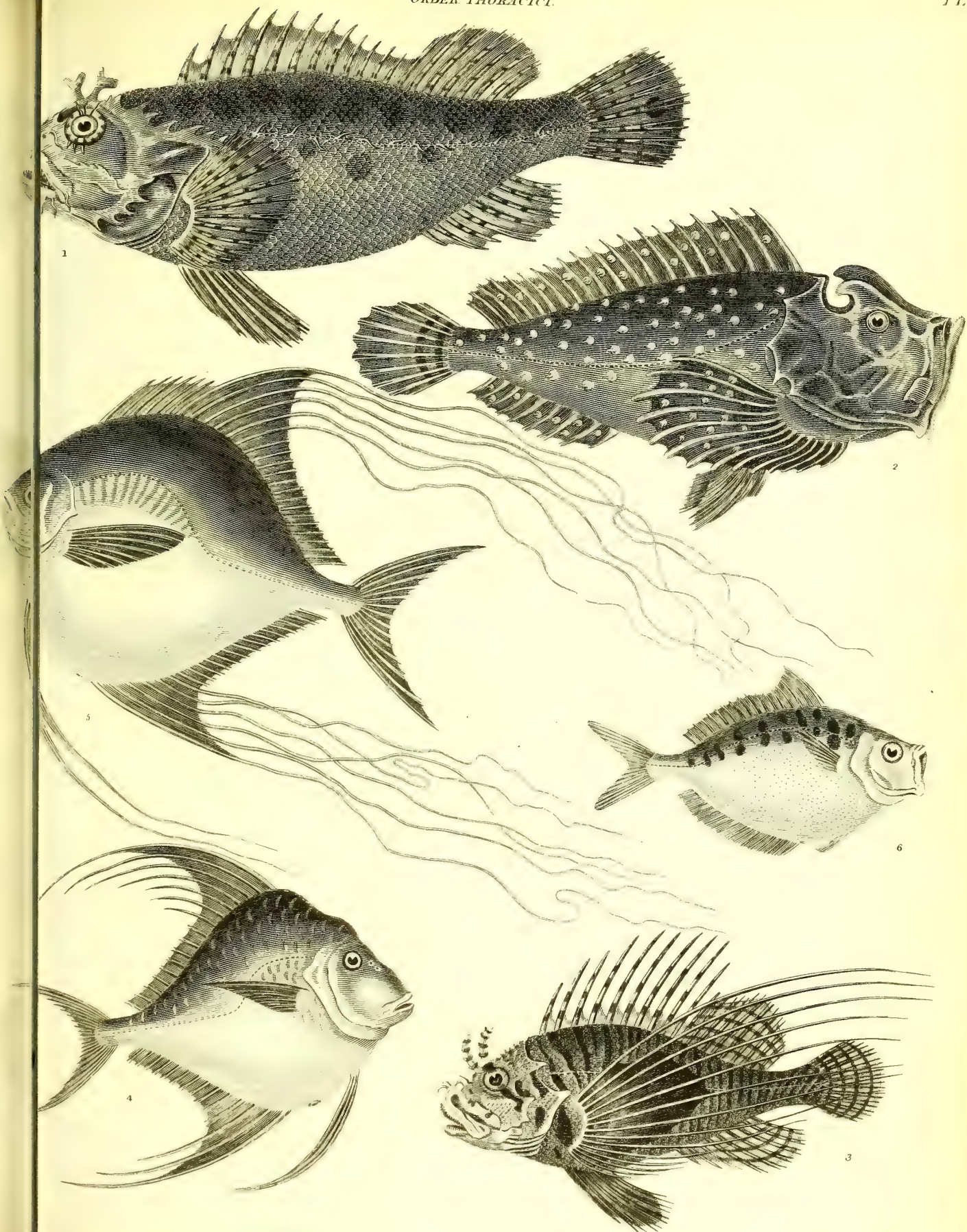
G. GORIUS.  
(Goby)  
3. G. Minutus.  
SPOTTED G.

G. CORYPHENA.  
(Coryphene)  
4. C. Hippurus.  
COMMON C.  
5. C. Rindactyla.  
FIVE SPOT C.









G. SCORPENA

GENUS ZEUS

1. *S. Scrofa* — 2. *S. Horrida* — 3. *S. Antennata* — 4. *Z. Gallus* — 5. *Z. Ciliaris* — 6. *Z. insidiator*

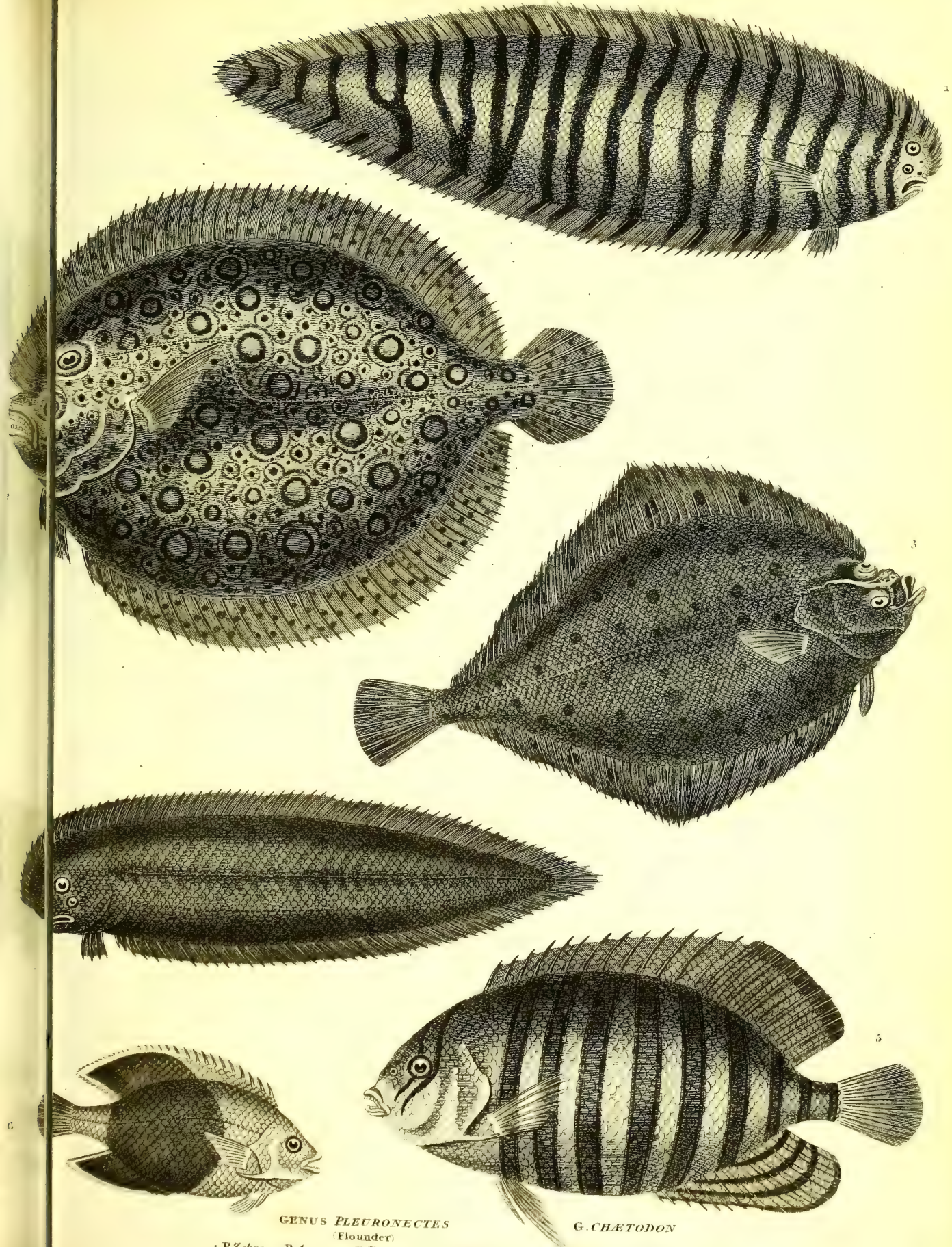
Published as the Act directs June 1<sup>st</sup> 1812. by Longman, Hurst, Rees, Orme & Brown Paternoster Row.

W. L. S. scap.









GENUS *PLEURONECTES*  
(Flounder.)

*G. CHLETODON*

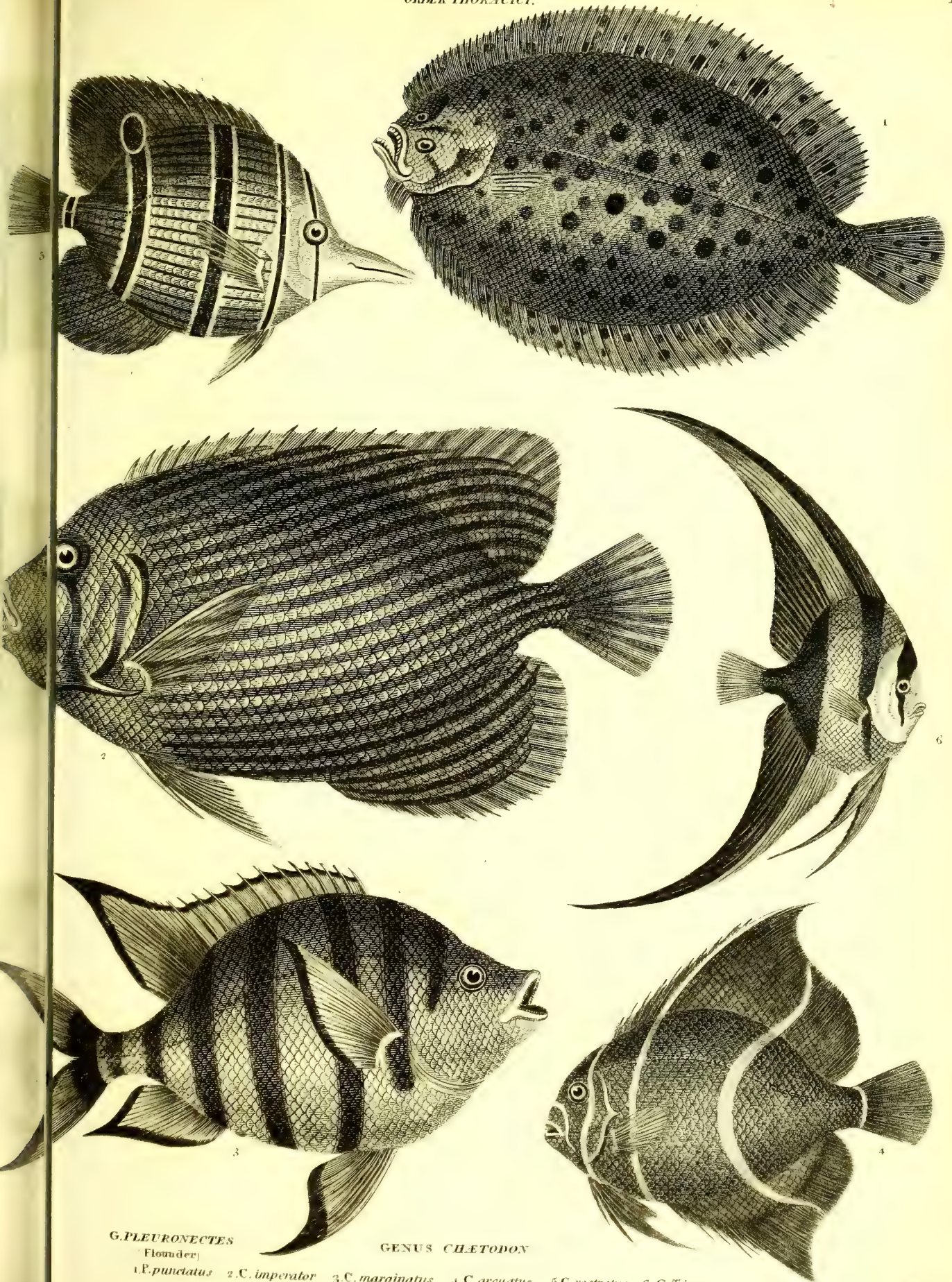
1. *P. Zebra*—2. *P. Argus*—3. *P. Platessa*—4. *P. Bilineatus*—5. *C. Bicolor*—6. *C. Fasciatus*.

Published as the Act directs April 1 1874 by Longman Hurst Rees, Orme & Brown Paternoster Row.









G. PLEURONECTES  
Flounder

GENUS CHETODON

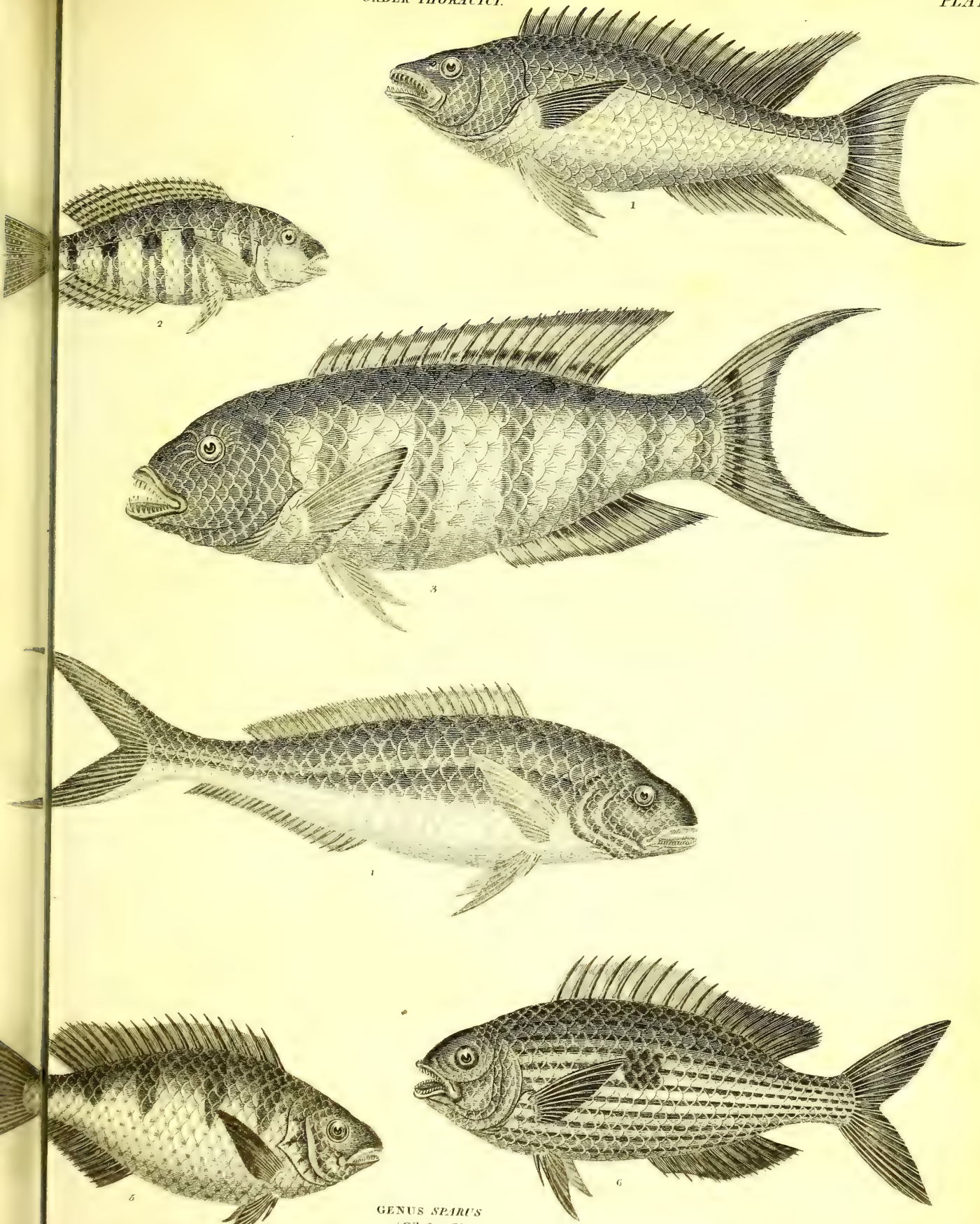
1. *P. punctatus* 2. *C. imperator* 3. *C. marginatus* 4. *C. arcuatus* 5. *C. rostratus* 6. *C. Teira*

Published at the Act directs. Nov. 1848. by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.









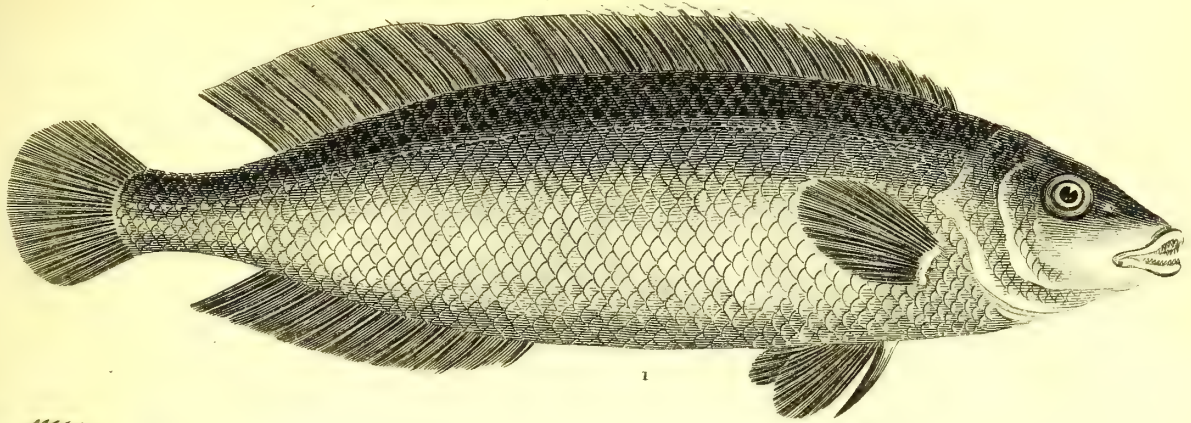
GENUS SPARUS  
(Gilt-head)

- |                       |                           |                        |                        |                        |                   |
|-----------------------|---------------------------|------------------------|------------------------|------------------------|-------------------|
| 1. <i>S. falcatus</i> | 2. <i>S. Surinamensis</i> | 3. <i>S. taeniatus</i> | 4. <i>S. Chrysurus</i> | 5. <i>S. annularis</i> | 6. <i>S. mena</i> |
| FALCATED G.           | SURINAM G.                | BANDED G.              | GOLDEN-TAIL G.         | ANNULATED G.           | CACKREL G.        |





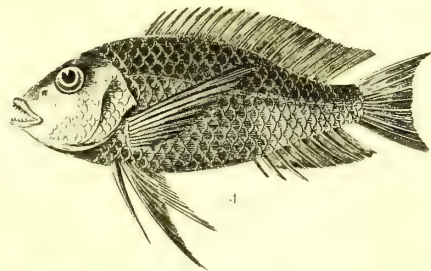




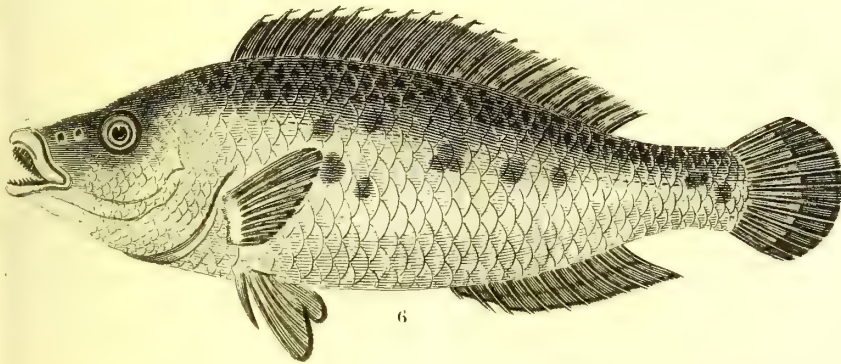
1



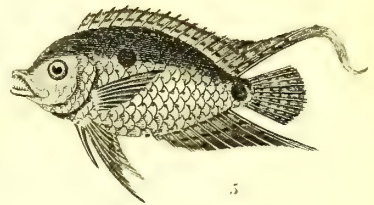
2



4



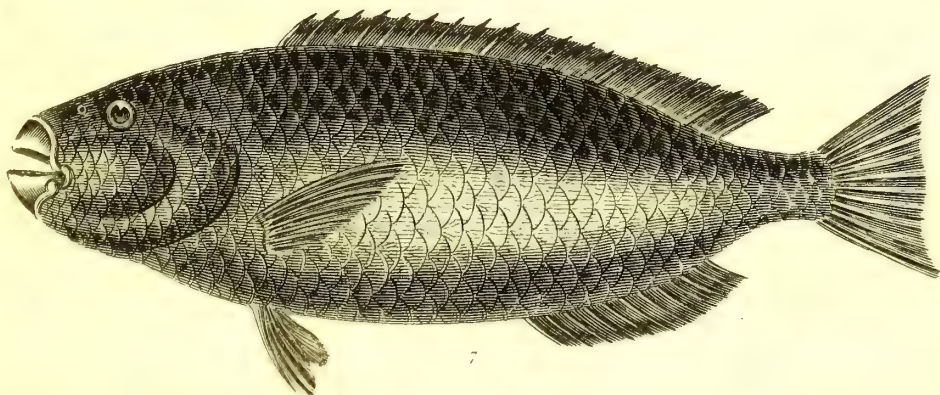
6



5



3



7

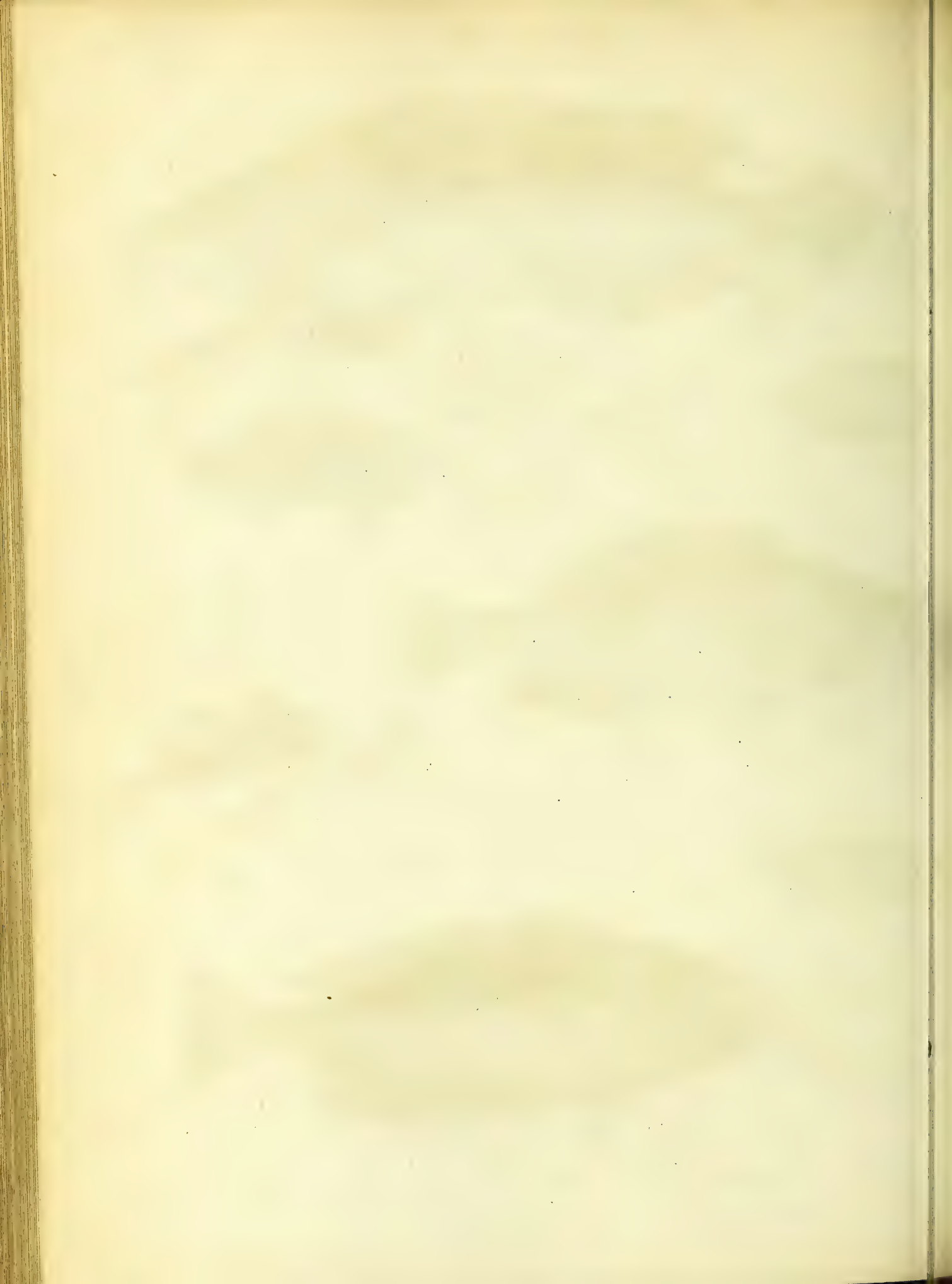
GENUS LABRUS

1. *L. microlipidotus* — 2. *L. brichopterus* — 3. *L. malapterus* — 4. *L. maculatus* — 5. *L. punctatus* — 6. *L. melagaster* — 7. *L. viridis*

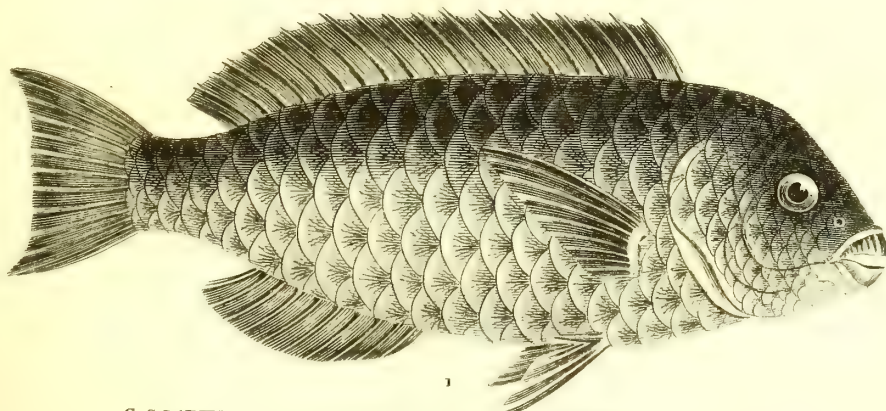
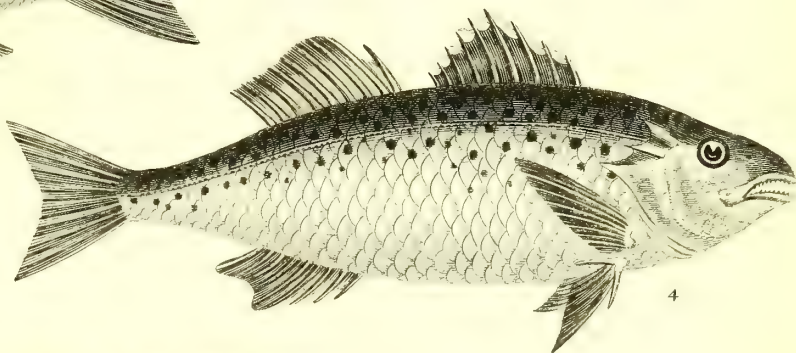
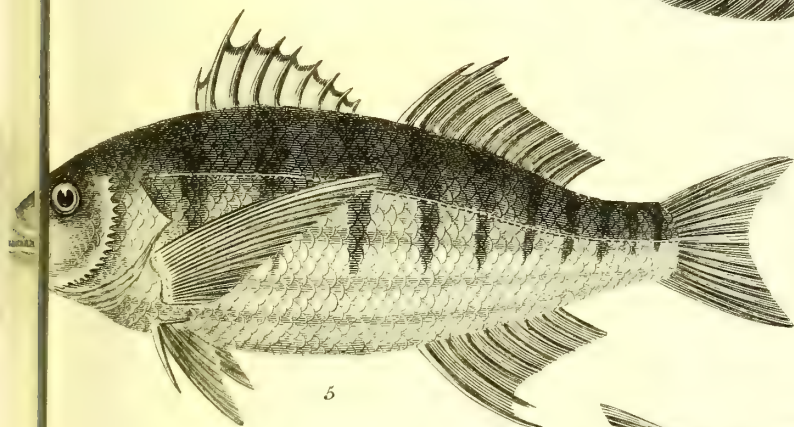
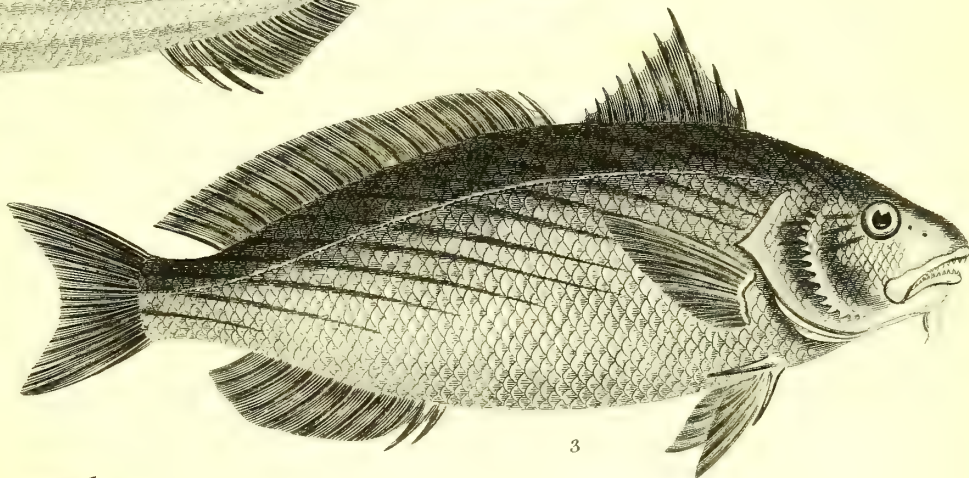
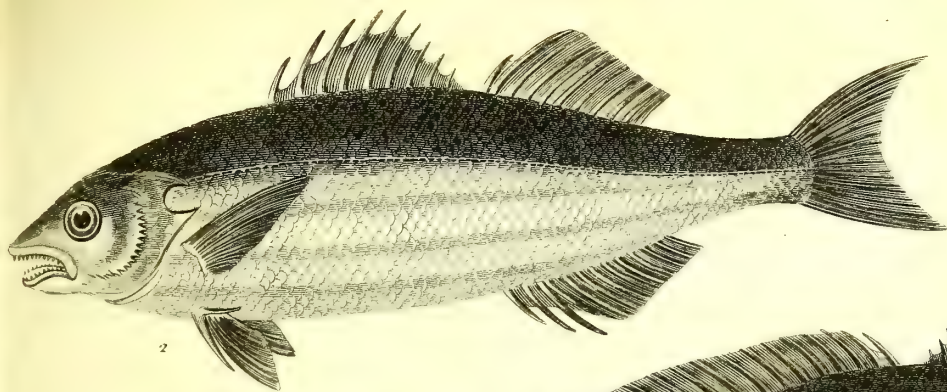
GENUS SCABRUS

7. *S. viridis*









G. SCARUS

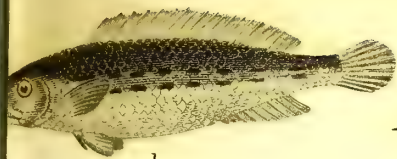
GENUS SCLÆNA

1. S<sup>o</sup> *ordensis* — 2. S<sup>a</sup> *diacantha* — 3. S<sup>a</sup> *cirrosa* — 4. S<sup>a</sup> *punctata* — 5. S<sup>a</sup> *plumieri*.

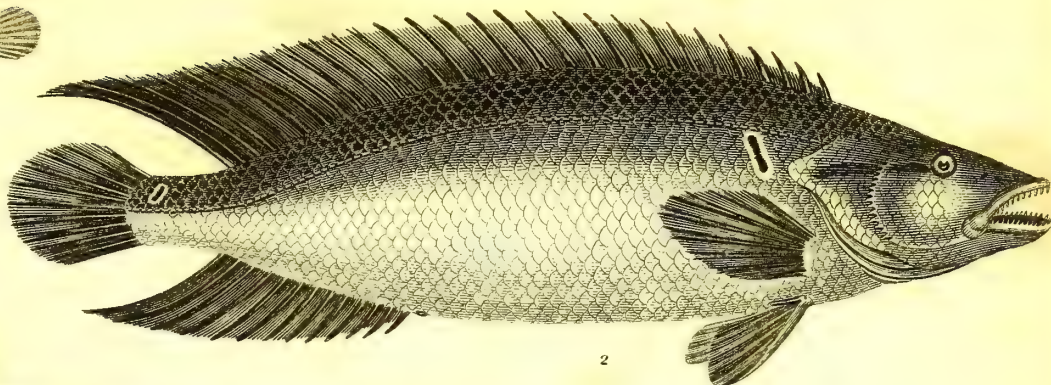




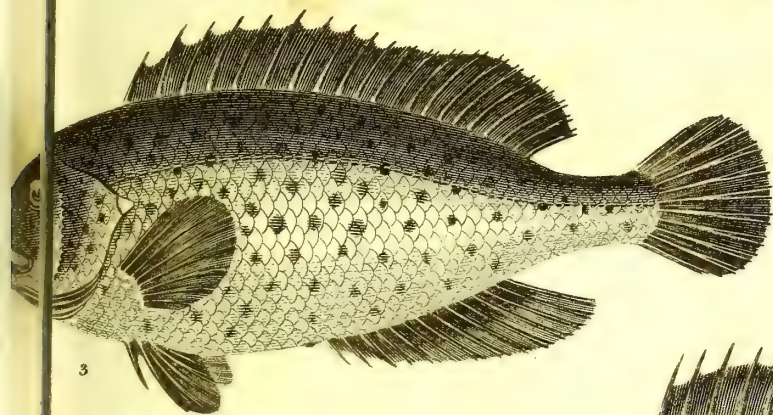




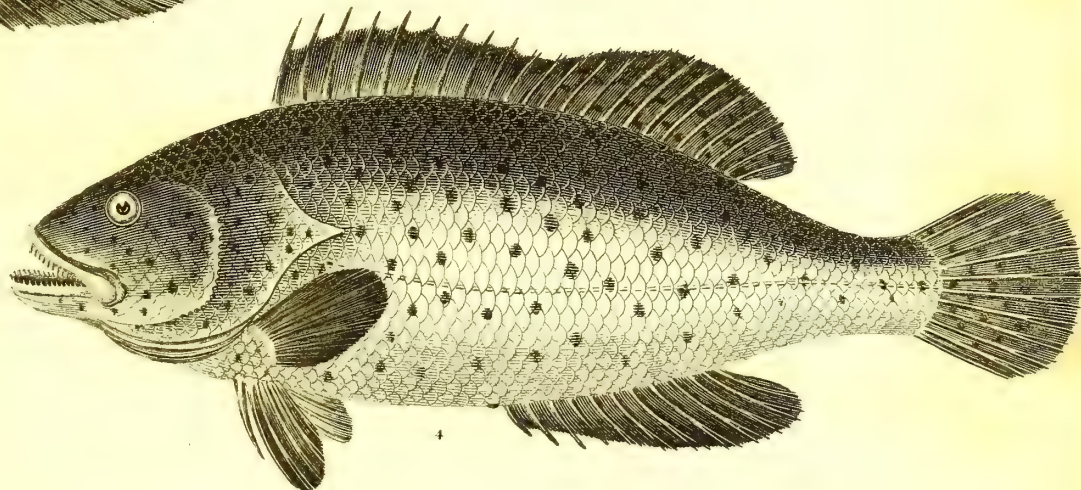
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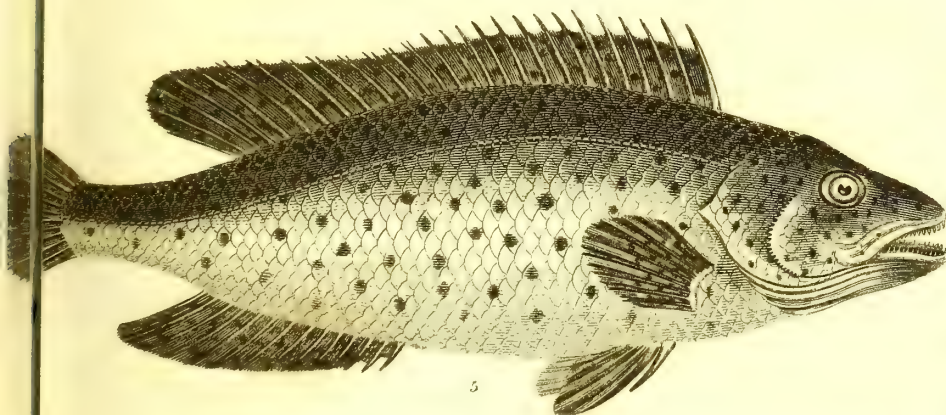
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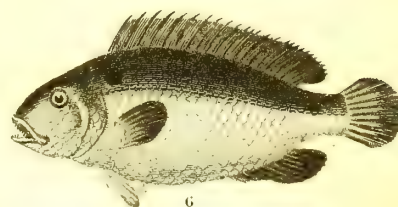
3



4



5



6

GENUS PERCA

(Perch)

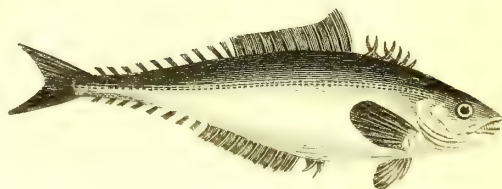
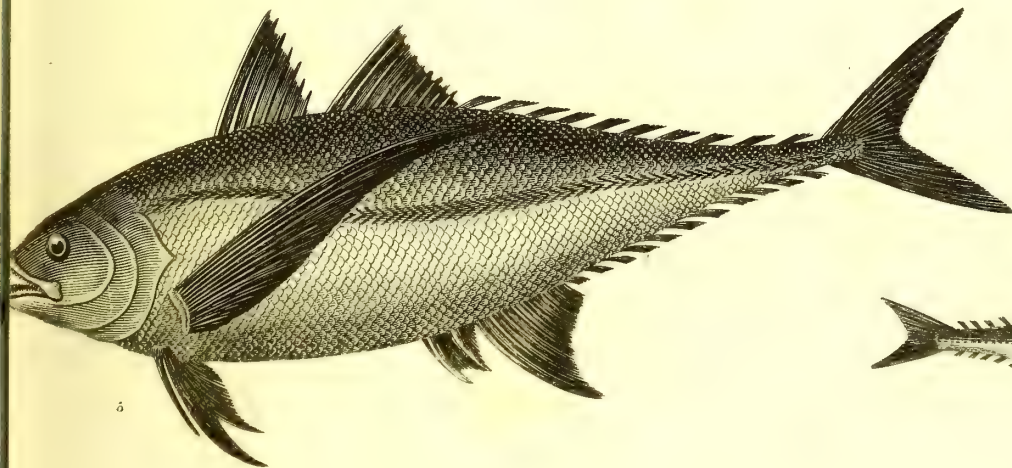
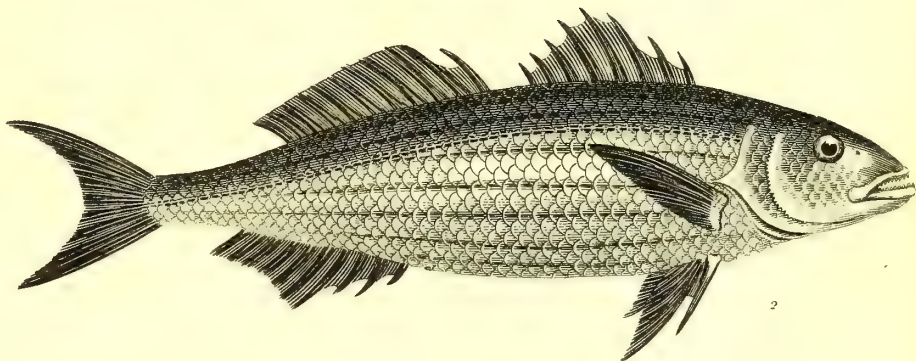
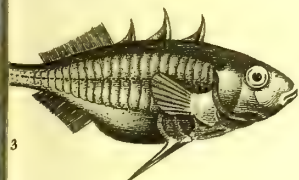
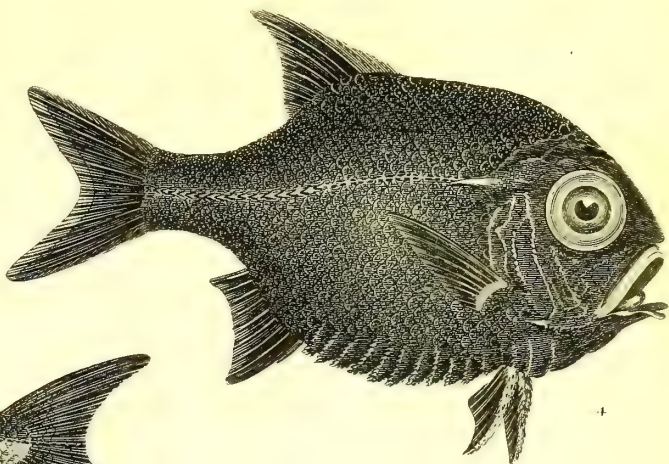
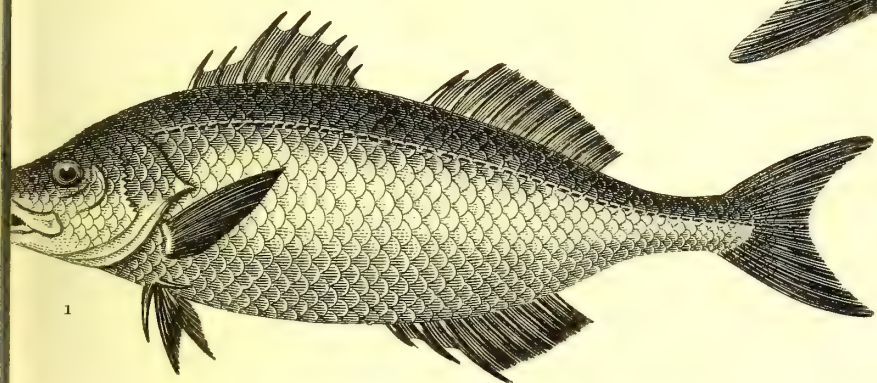
1. *P. brasiliensis*. 2. *P. savatilis*. 3. *P. punctata*. 4. *P. guttata*. 5. *P. maculata*. 6. *P. bimaculata*.

Published as the Act Direct June 1<sup>st</sup> 1869, by Longman Hurst, Rees & Orme Paternoster Row.









GENUS *SCLENA*

1. *Sc. Undecimalis* 2. *Sc. Lineata*

*G. GASTEROSTEUS*

(Stickleback)

3. *G. Aculeatus*

*G. TRACHYCHTHYS*

4. *T. Australis*

*G. SCOMBER*

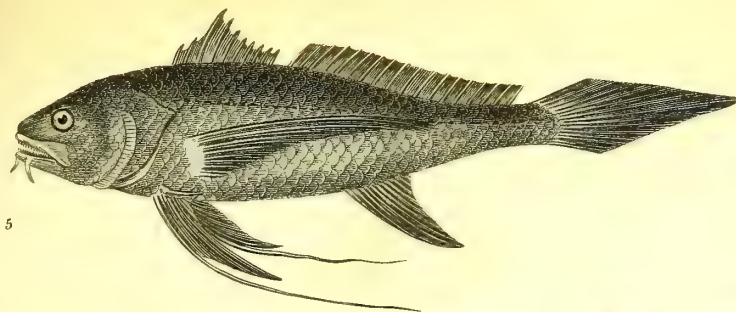
(Mackerel)

5. *S. Rotleri* 6. *S. Icauleatus*

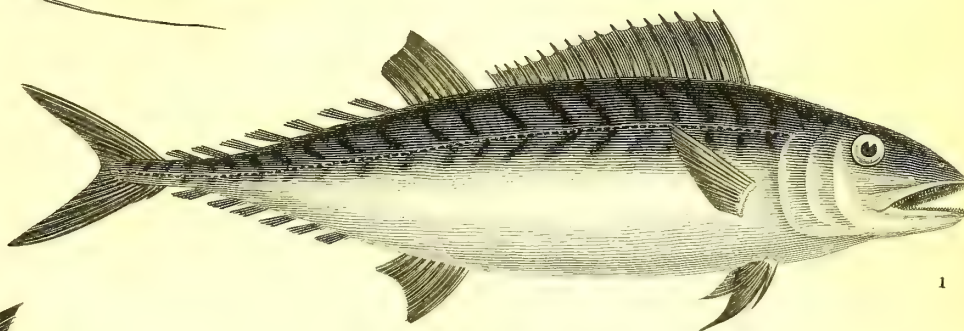




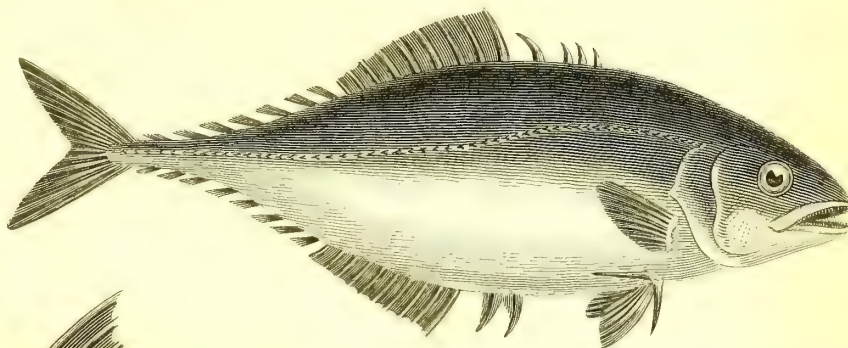
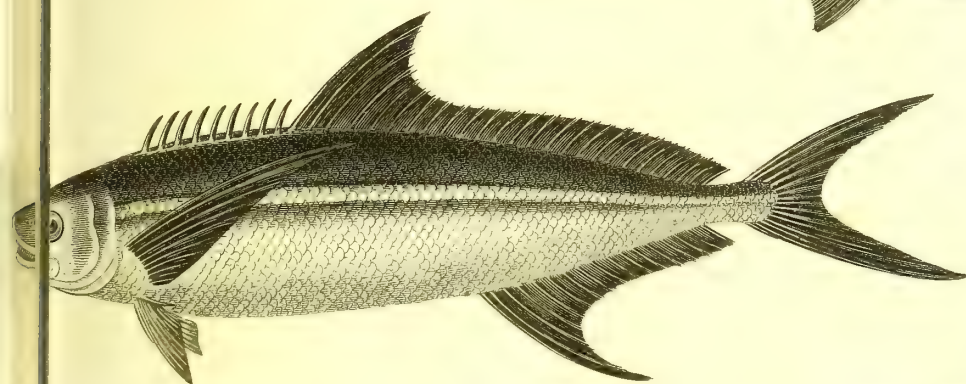




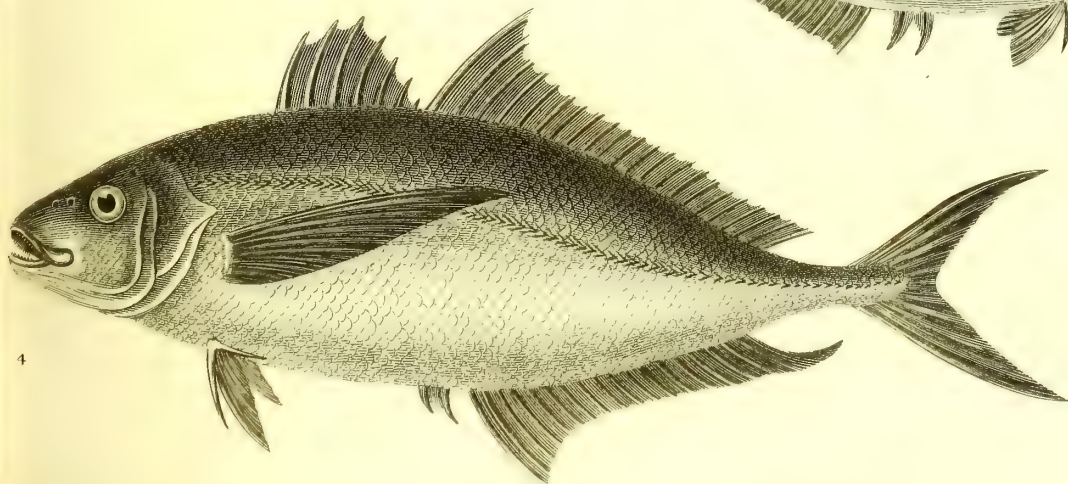
5



1



3



4

GENUS SCOMBER  
 (Mackerel)

G. LONCHICURUS

1. S. Sarda — 2. S. Niger — 3. S. Saliens — 4. S. Ruber — 5. L. Barbatus

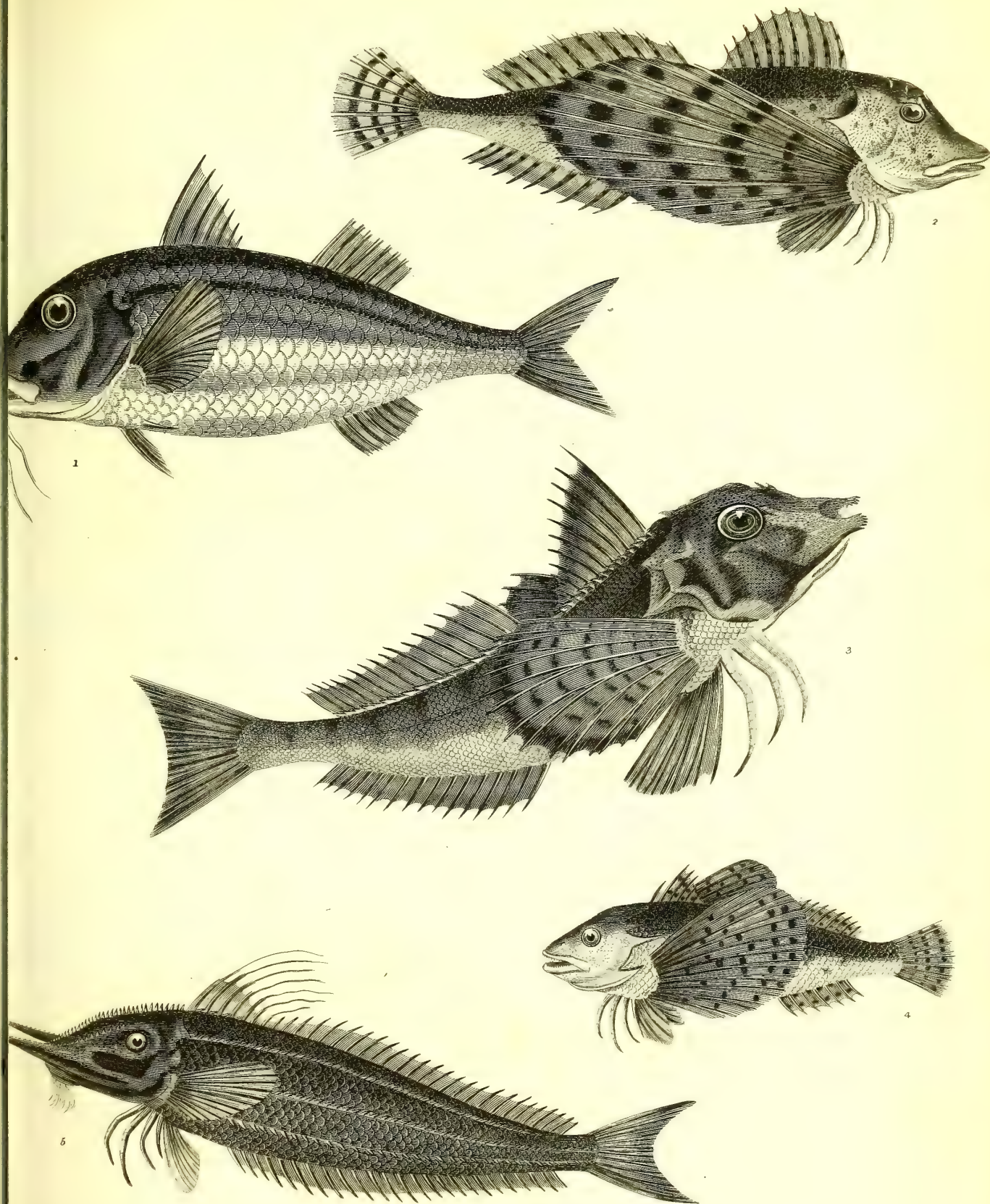
Published as the Act directs, July 1<sup>st</sup> 1812, by Longman Hurst, Rees, Orme & Brown Paternoster Row.

Milton sculp









**G. MULLUS**  
(Mullet)

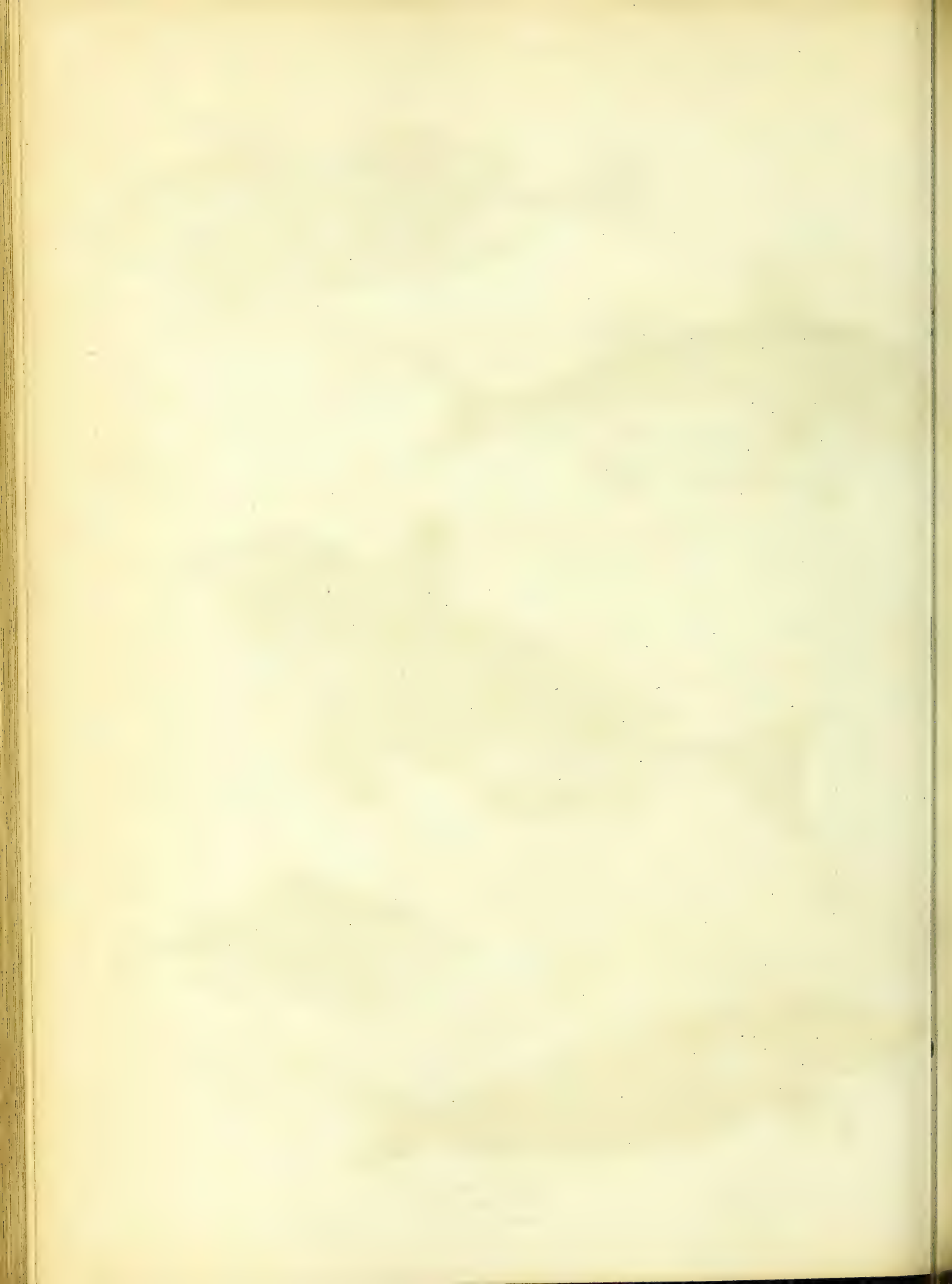
**GENUS TRIGLA**  
(Gurnard)

1. *M. Surmuletus* — 2. *T. Carolina* — 3. *T. Hirundo* — 4. *T. Punctata* — 5. *T. Cataphractus*.

Published as the Act directs, June 1852, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

Milton sculp.



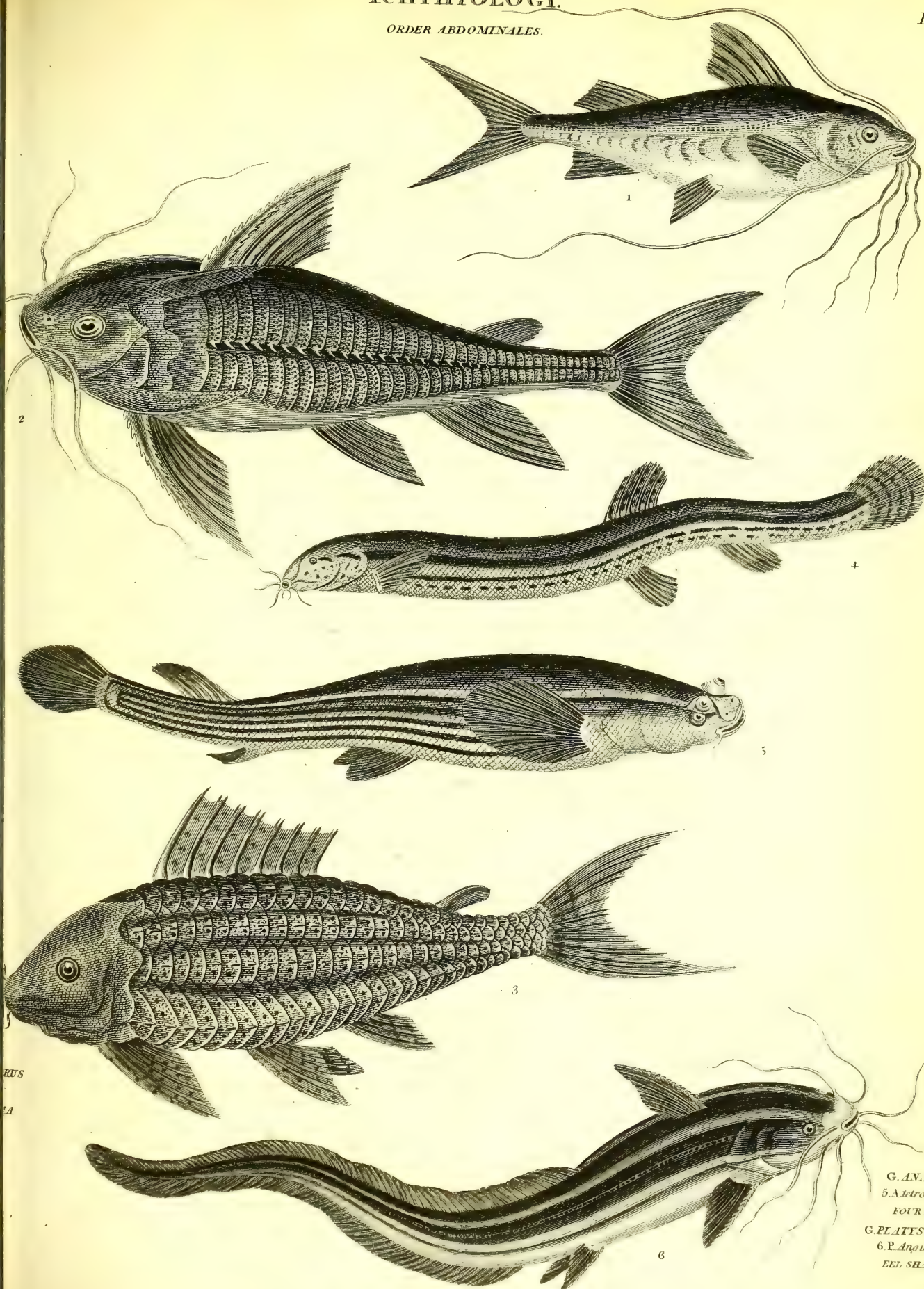




# ICHTHYOLOGY.

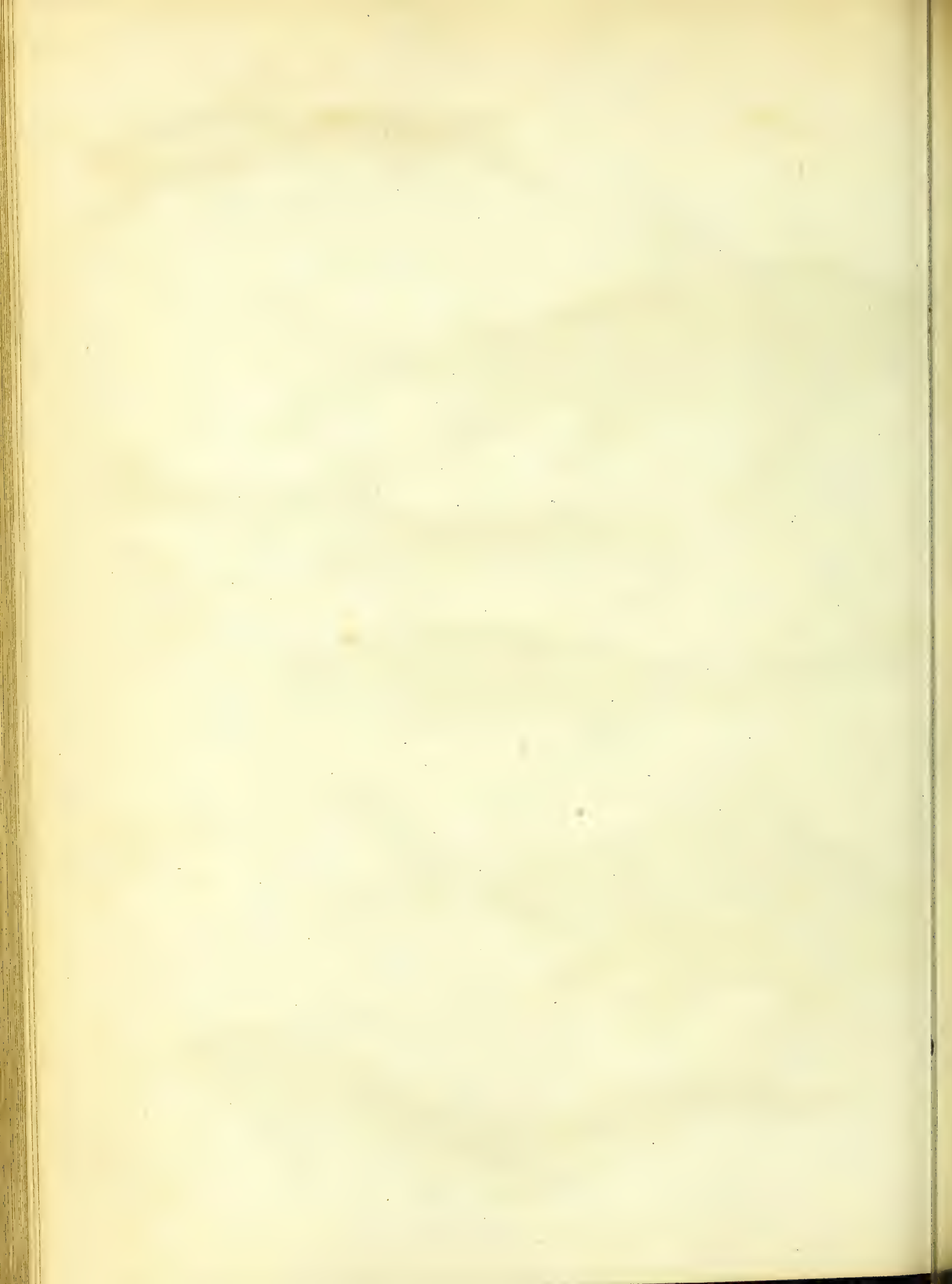
ORDER ABDOMINALES.

PLATE V.



G. ANIBLEPS  
5. Aetrophthalmus  
FOUR EYED.  
G. PLATYSTACHUS  
6. P. anguilaris  
EEL SHAPED.



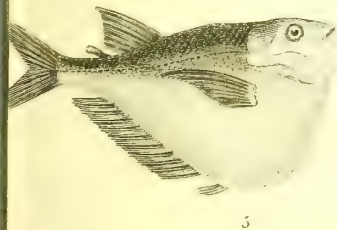
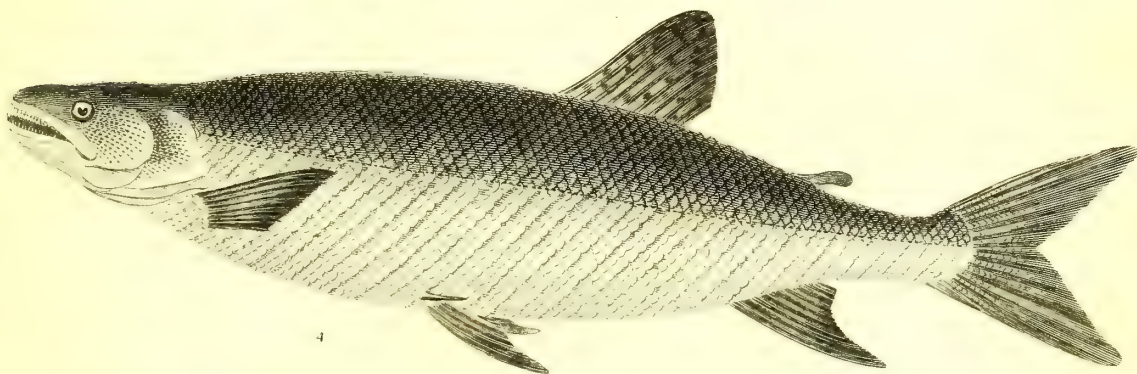
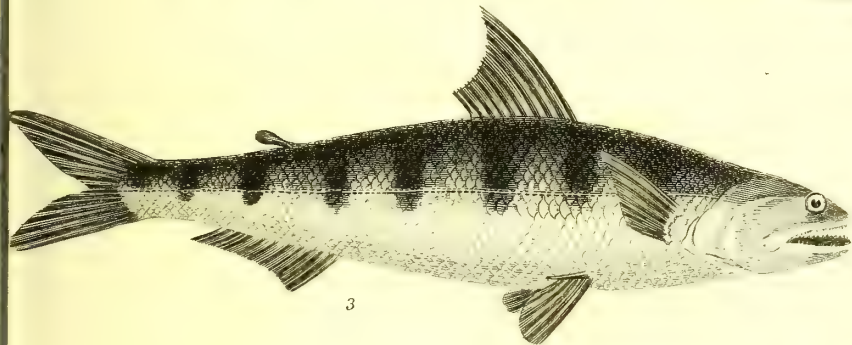




# ICHTHYOLOGY.

ORDER ABDOMINALES.

PLATE L



## GENUS SALMO

Salmon

1. *S. bimaculatus* - 2. *S. fasciatus* - 3. *S. tumbil* - 4. *S. odocoileus* - 5. *S. gasteropelecus* - 6. *S. friderici* - 7. *S. rhombus*

Published as the Act directs, July 1<sup>st</sup> 1861 by Longman, Hurst, Rees, Orme & Brown, Paternoster Row



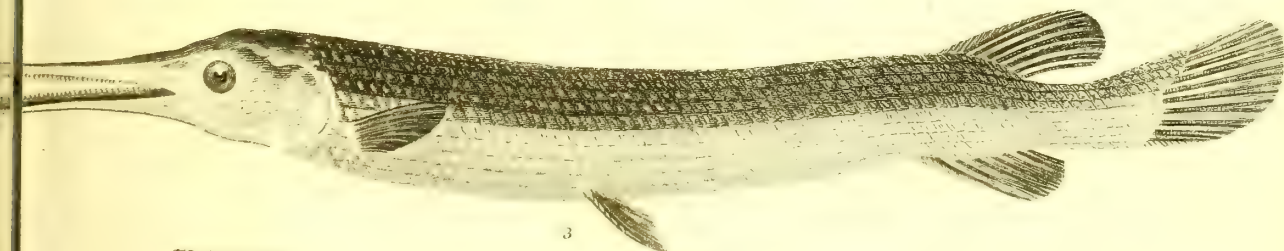
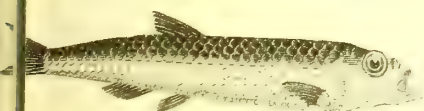
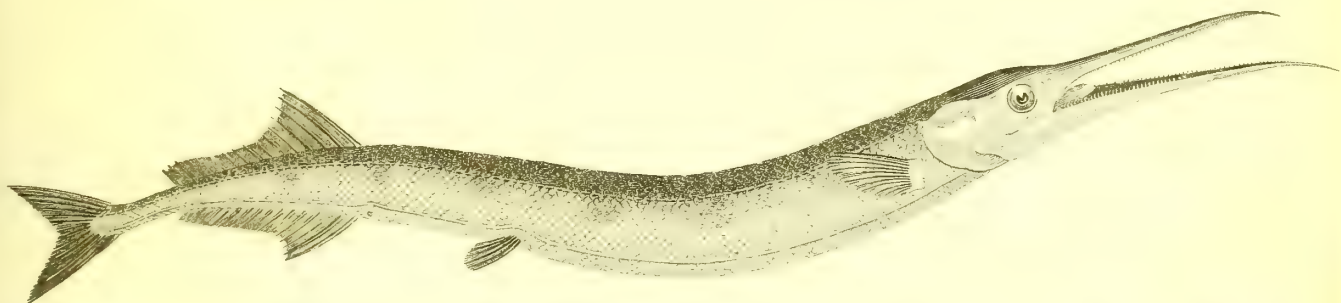
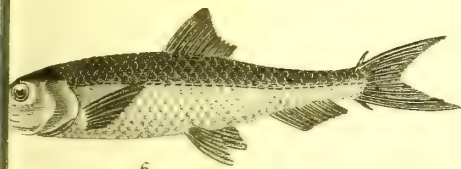
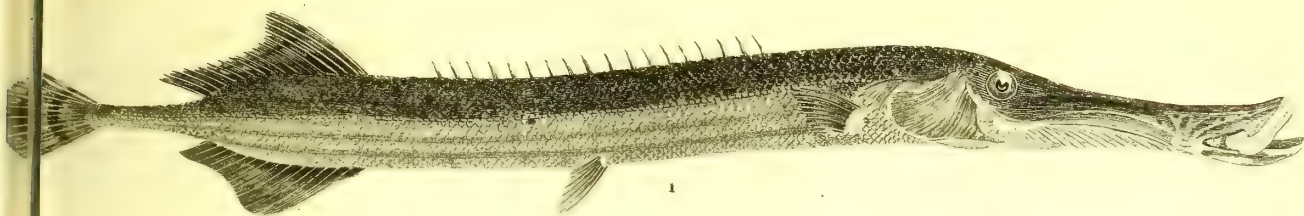




# ICHTHYOLOGY.

ORDER ABDOMINALES.

PLATE II  
of Order Ab.



## FISTULARIA

(Tobacco Pipe Fish)

1. *F. Clunensis*

2. *F. Tobacaria*

3. *F. Osseus*

## GEN. ESOX

(Sea Pike or Gar-Fish)

4. *E. Beloni*

5. *E. Brasiliensis*

## ELOPS

ARGENTINA

(Argentine)

6. *E. Saurus*

7. *A. Sphyræna*

EUROPEAN.

CHINESE TOBACCO P.F.

SPOTTED TOBACCO P.F.

OR GAR FISH or BONY P.

SEA PIKE or GAR F.

BRASILIAN P.





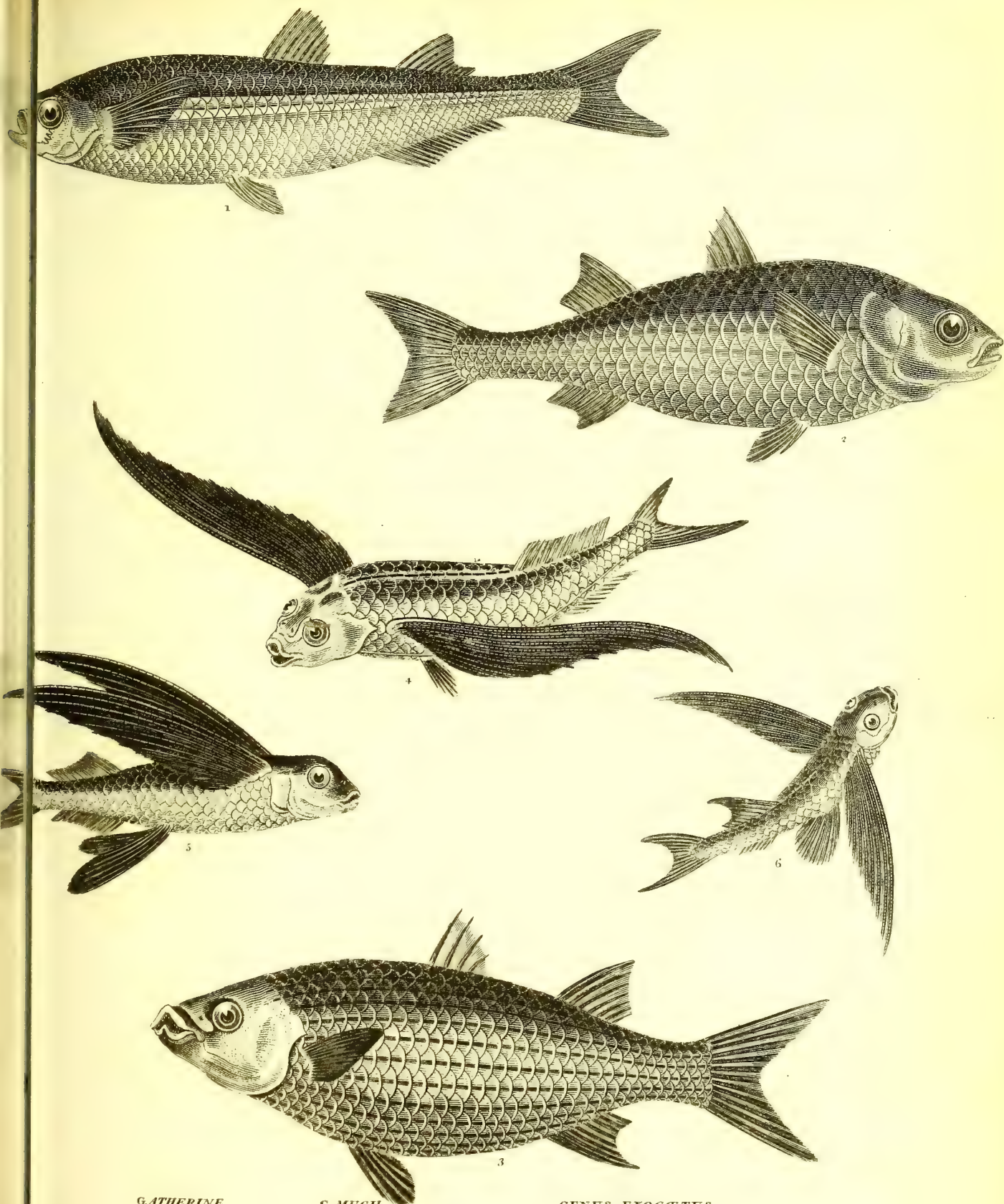


# ICHTHYOLOGY.

ORDER ABDOMINALES.

PLATE I

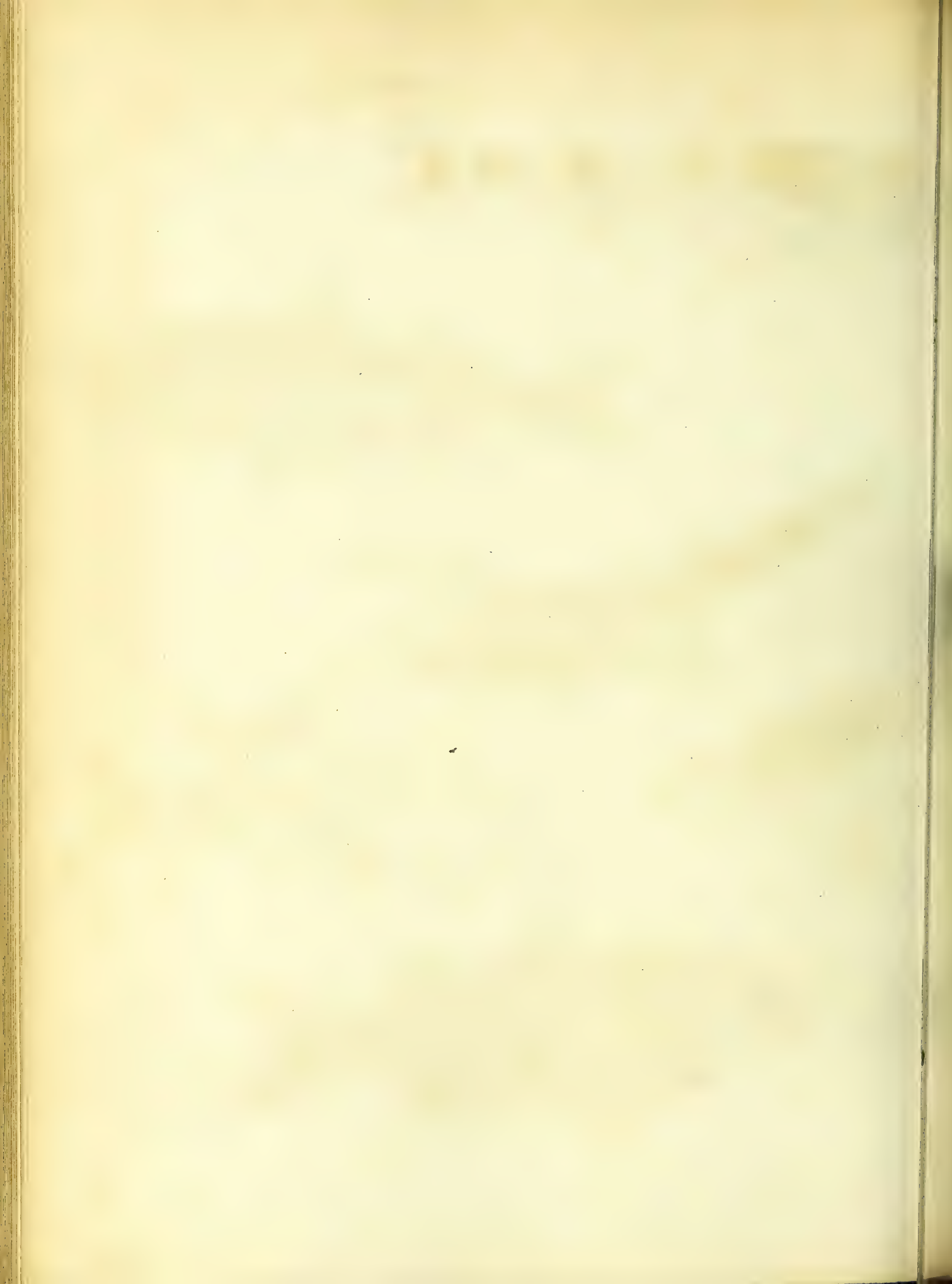
of Order Ab.



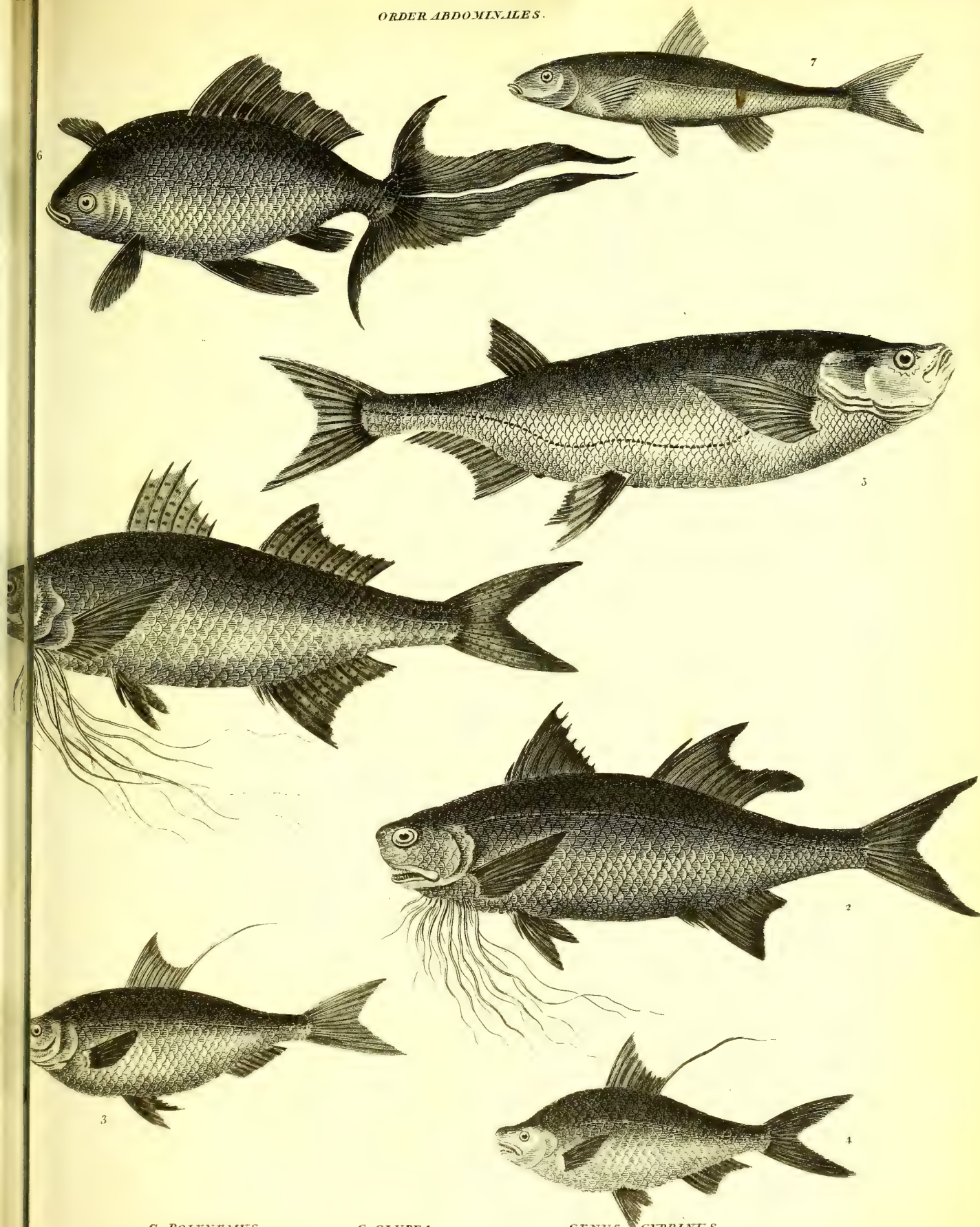
<b>G.ATHERINE</b>		<b>G. MUGIL</b>		<b>GENUS EXOCETUS</b>	
(Atherine)		(Mullet)		(Flying Fish)	
1. <i>A. Hepsetus</i>	2. <i>M. Tang</i>	3. <i>M. Cephalus</i>	4. <i>E. volans</i>	5. <i>E. exilis</i>	6. <i>E. Mesogaster</i>
COMMON ATHERINE	TANG M.	GREY M.	MEDITERRANEAN EE	SWALLOWEE	ATLANTIC EE.

Published as the Act directs. Feb. 11<sup>th</sup> 1860. by Longman, Hurst, Rees & Orme, Paternoster Row.









G. POLYNEMUS

(Polynemus)

1. P. Paradiseus  
PARADISE P.

2. P. Decadactylus

TEN FINGERED P.

G. CLUPEA

(Herring)

3. C. Trissa  
FLORISSAH.

4. C. Nasus

NASAL H.

GENUS CYPRINUS

5. C. Cultratus  
RAZOR C.

6. C. Auratus  
GOLDEN C. var.

7. C. Phoxinus  
MINNOW.

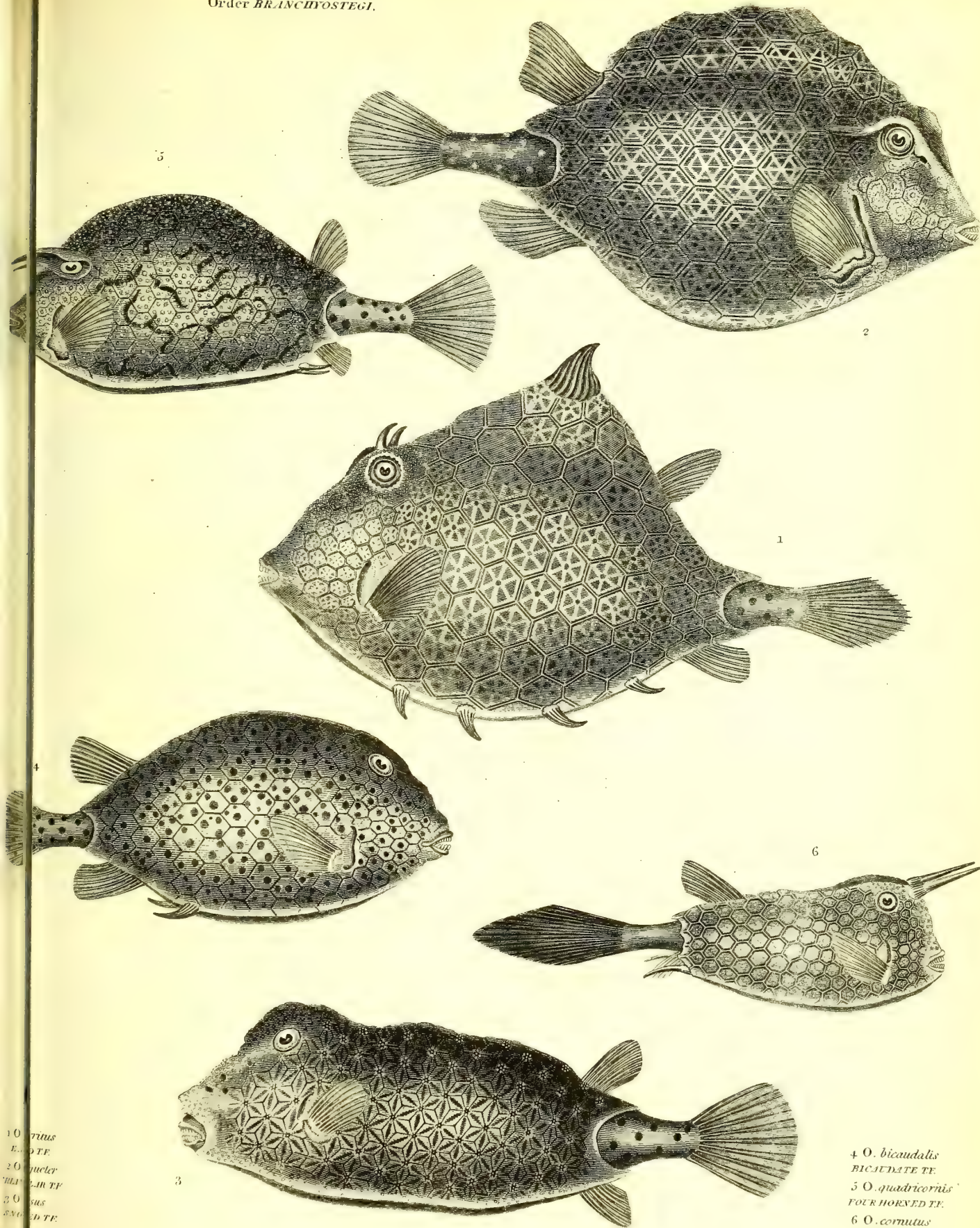
Milton sculp.







Order BRANCHIOSTEGI.



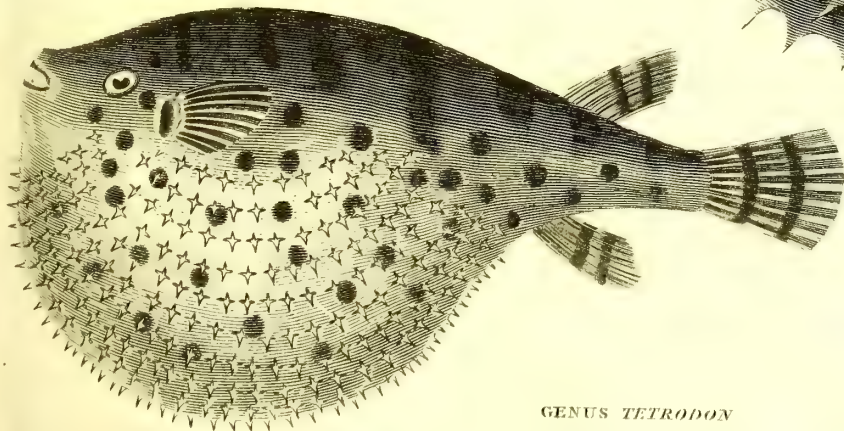
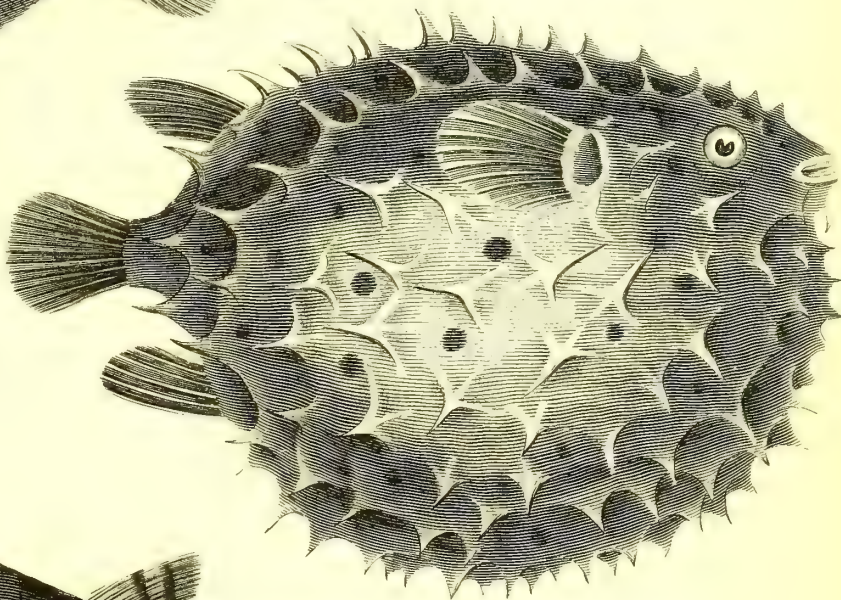
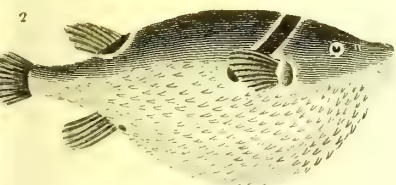
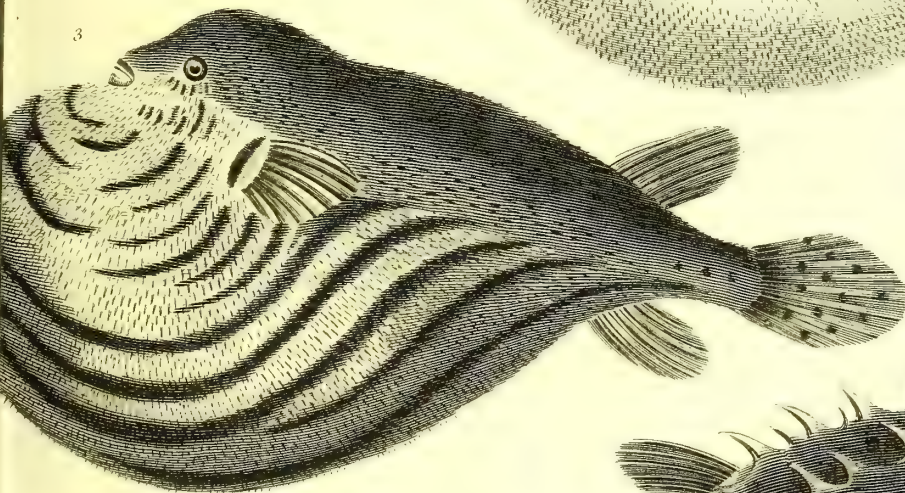
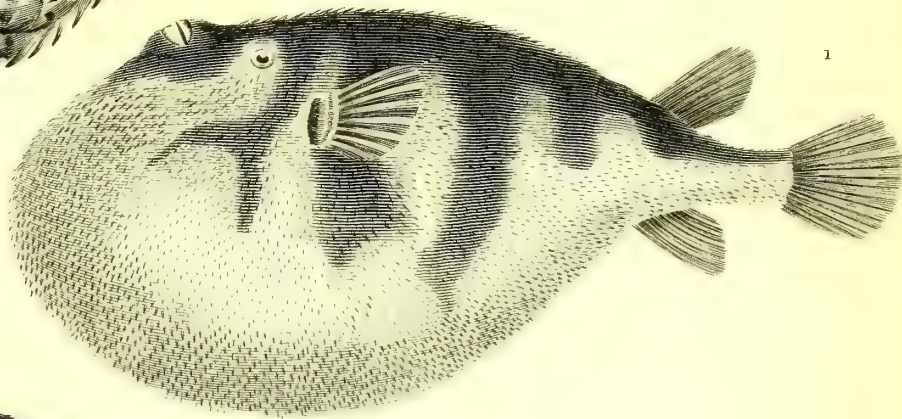
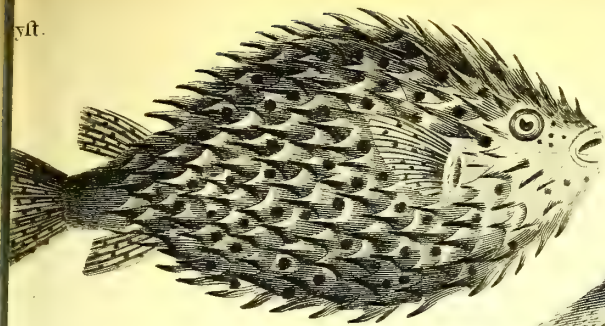
10 *tricus*  
E. 30 TE  
20 *quater*  
30 *tricus*  
E. 30 TE

4 *O. bicaudalis*  
BICAUDATE TF.  
5 *O. quadricornis*  
FOUR HORNED TF.  
6 *O. cornutus*  
HORNED TF.









GENUS TETODON

G. DIODON

- |                       |                        |                       |                           |                      |                          |
|-----------------------|------------------------|-----------------------|---------------------------|----------------------|--------------------------|
| 1. <i>T. hispidus</i> | 2. <i>T. ocellatus</i> | 3. <i>T. lineatus</i> | 4. <i>T. lapocephalus</i> | 5. <i>D. hystrix</i> | 6. <i>D. orbicularis</i> |
| HISPID T.             | OCCELLATED T.          | LINEATED T.           | HARE T.                   | PORCUPINE D.         | ROUND D.                 |







Order Branchiostegi.

GENUS *SYNGNATHUS* - *G. PEGASUS* - *G. CENTRISCUS*.

(Pipe-Fish)

(Pegasus)

(Centriscus)



1. *S. foliatus*  
POLLATED P.F.

2. *S. acus*  
GREAT P.F.

3. *Hippocampus*  
SEA HORSE P.F.

4. *Draco*  
DRAGON P.

5. *P. natans*  
SWIMMING P.

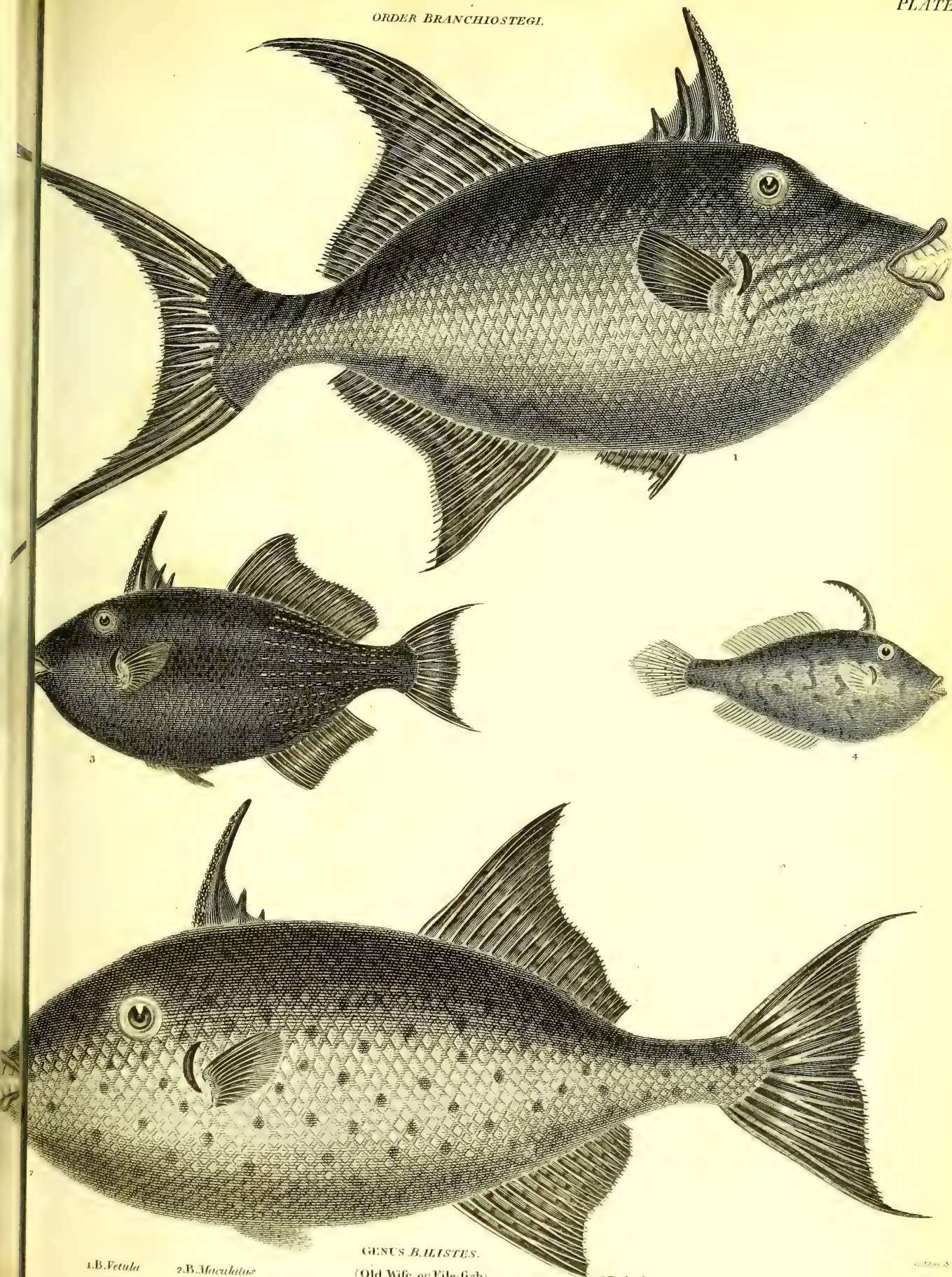
6. *C. scutatus*  
MAILED C.

\* magnified  
+ under surrus









1. *B. Fecula*  
OLD WIFE.

2. *B. Maculatus*  
SPOTTED OW.

GENUS *BALISTES*.  
(Old Wife or Tile-fish)

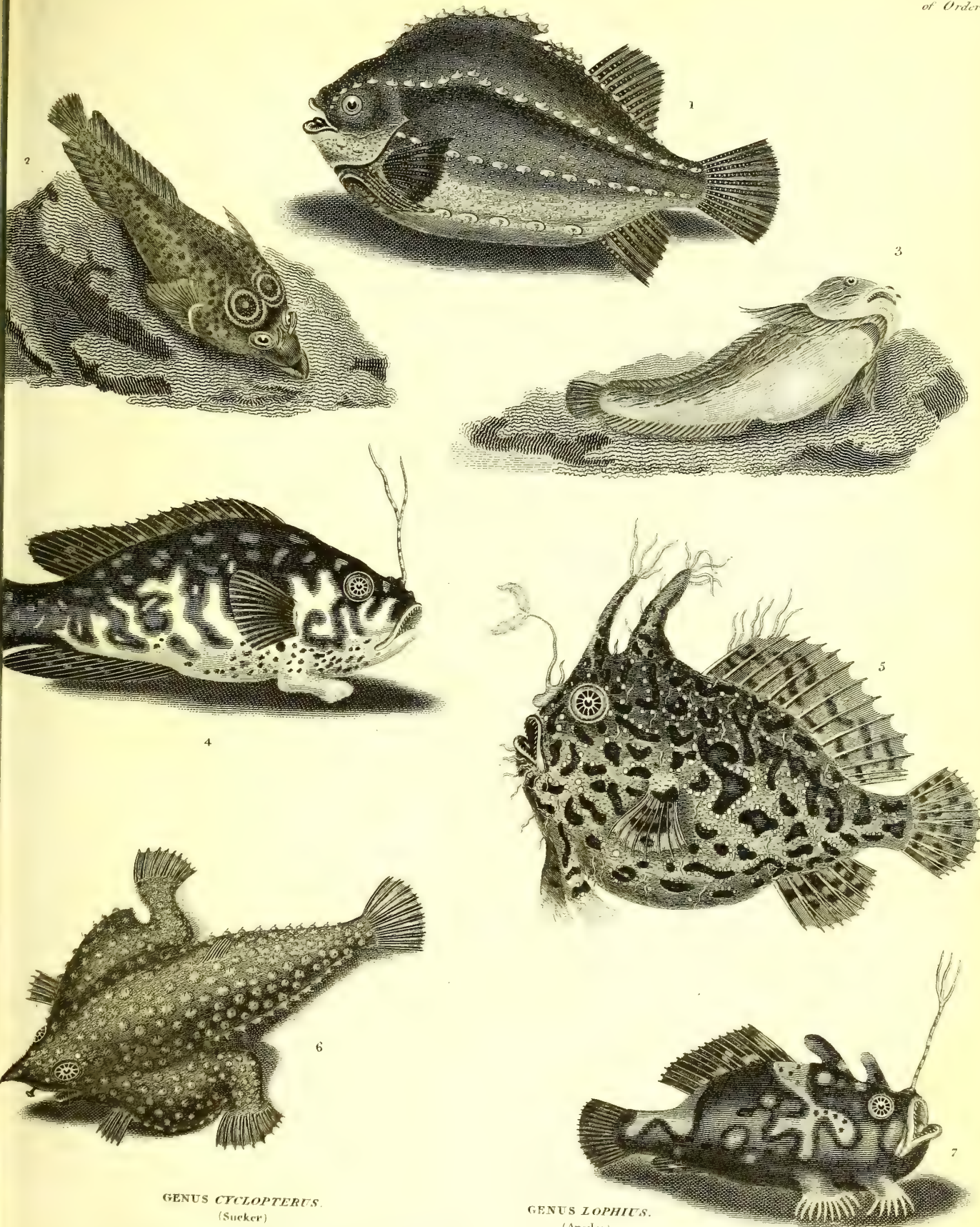
3. *B. Aculeatus*  
ACULEATED OW.

4. *B. Monoceros*  
ONE HORNED OW.









GENUS *CYCLOPTERUS*.

(Sucker)

1. *C. Lumpus*

2. *C. Ocellatus*.

3. *C. Lineatus*.

4. *L. Marmorata*.

5. *L. Histrio*.

6. *L. Rostratus*.

7. *L. Pictus*.

LUMP S.

OCCELLATED S.

LINEATED S.

MARBLED A.

HARLEQUIN A.

BEAKED A.

PAINTED A.

GENUS *LOPHIUS*.

(Angler)





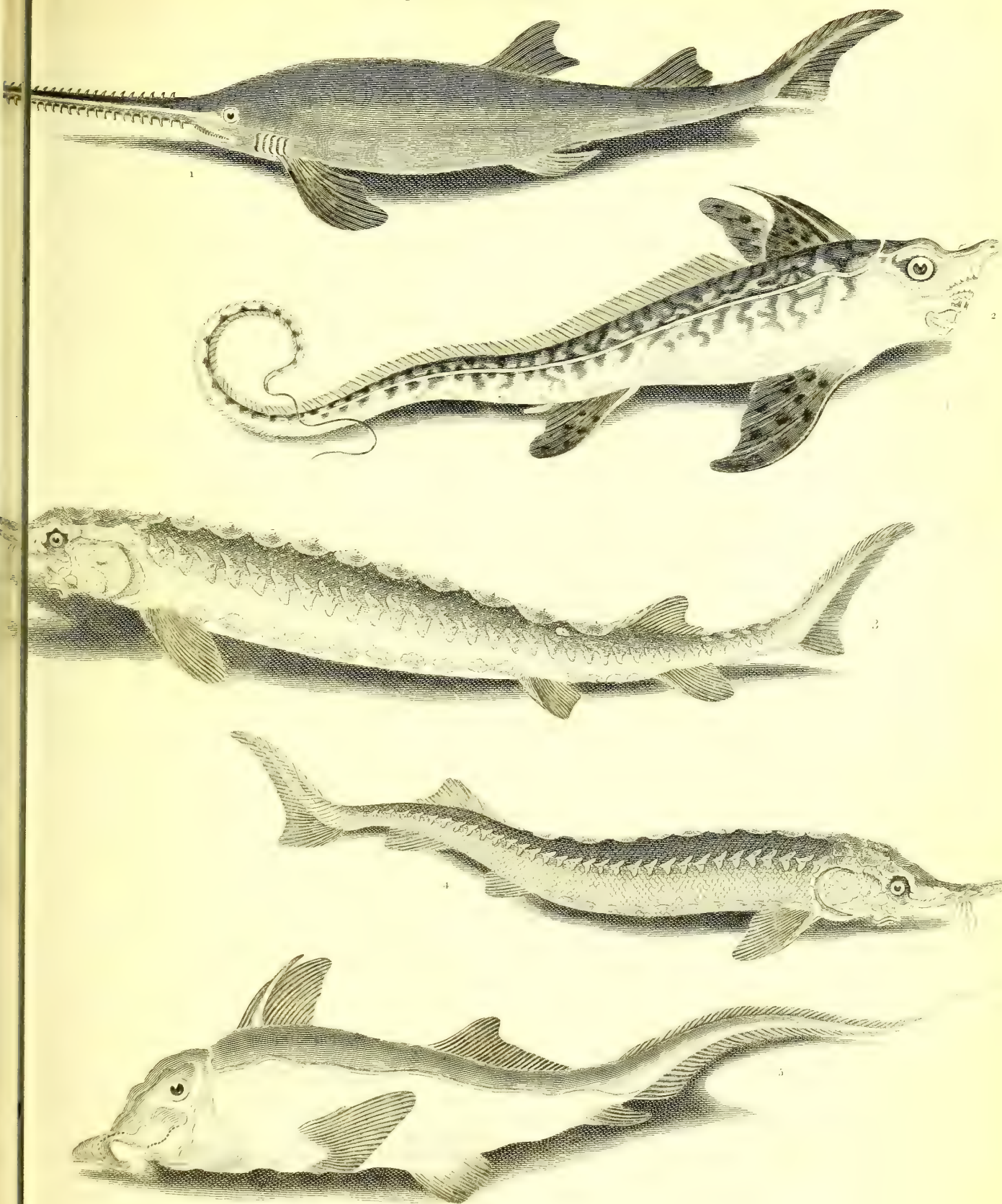


# ICHTHYOLOGY.

ORDER CHONDROPHRYGII.

Gen. *Acipenser* - *G. Chimæra* - *G. Pristis*.

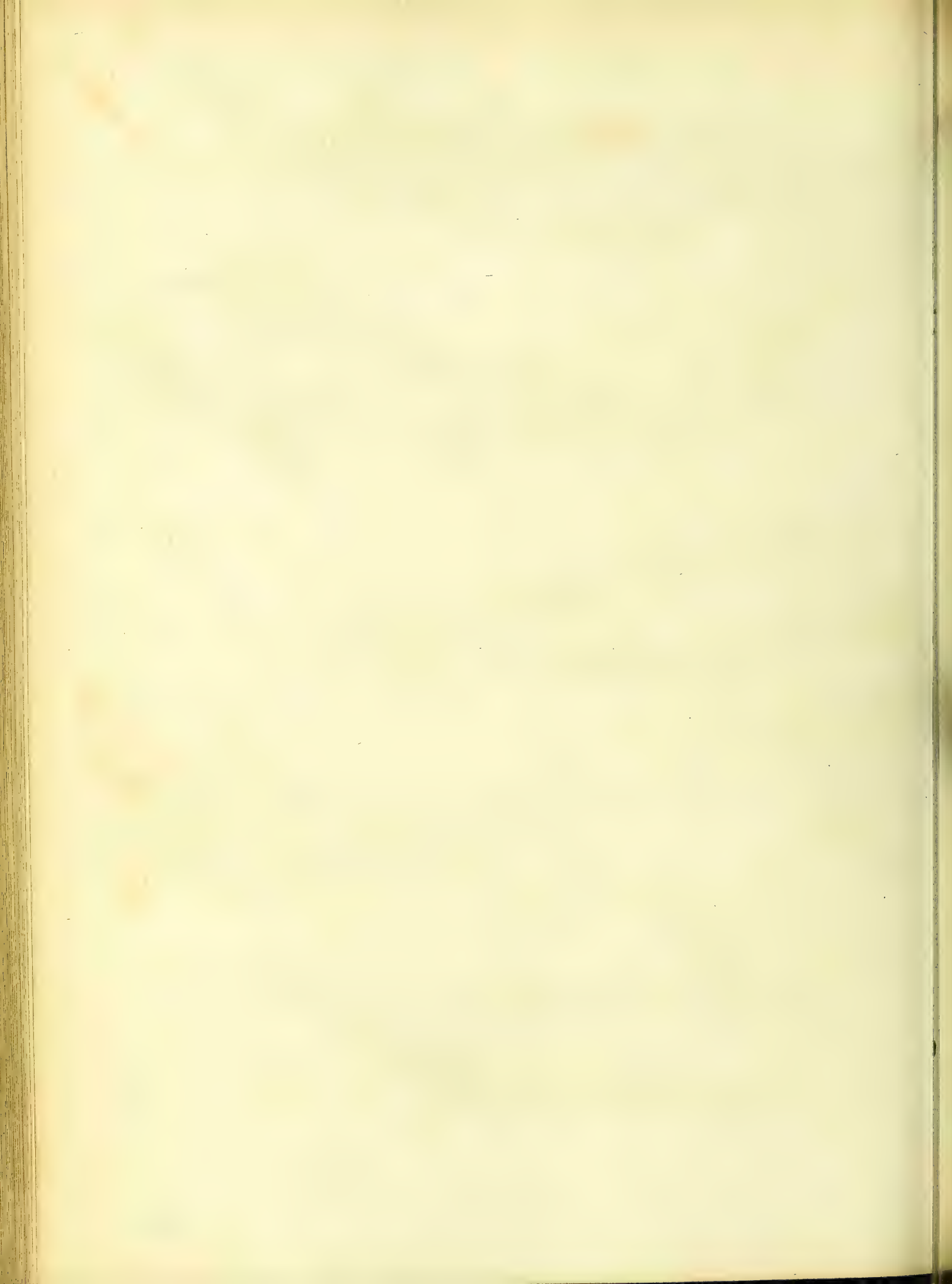
PLATE I.



1. <i>P. Antiquorum</i>	2. <i>C. monstrosa</i>	3. <i>A. Sturio</i>	4. <i>A. Ruthenus</i>	5. <i>C. Callorhynchus</i>
COMMON SAW-FISH	SEA MONSTER	STURGEON	STERLET	SOUTHERN C.

Published at the Art directors, &c. by Longman, Hurst, Rees & Orme, Paternoster Row.









GENUS SQUALUS  
(Shark)

GENUS SPATULARIA

1. *S. glaucus*

2. *S. catulus*

3. *S. squatina*

4. *S. zygaena*

5. *S. zebra*

6. *Sp. reticulata*

BLUE S.

LESSER SPOTTED DOG FISH.

ANGEL S.

HAMMERHEADED S.

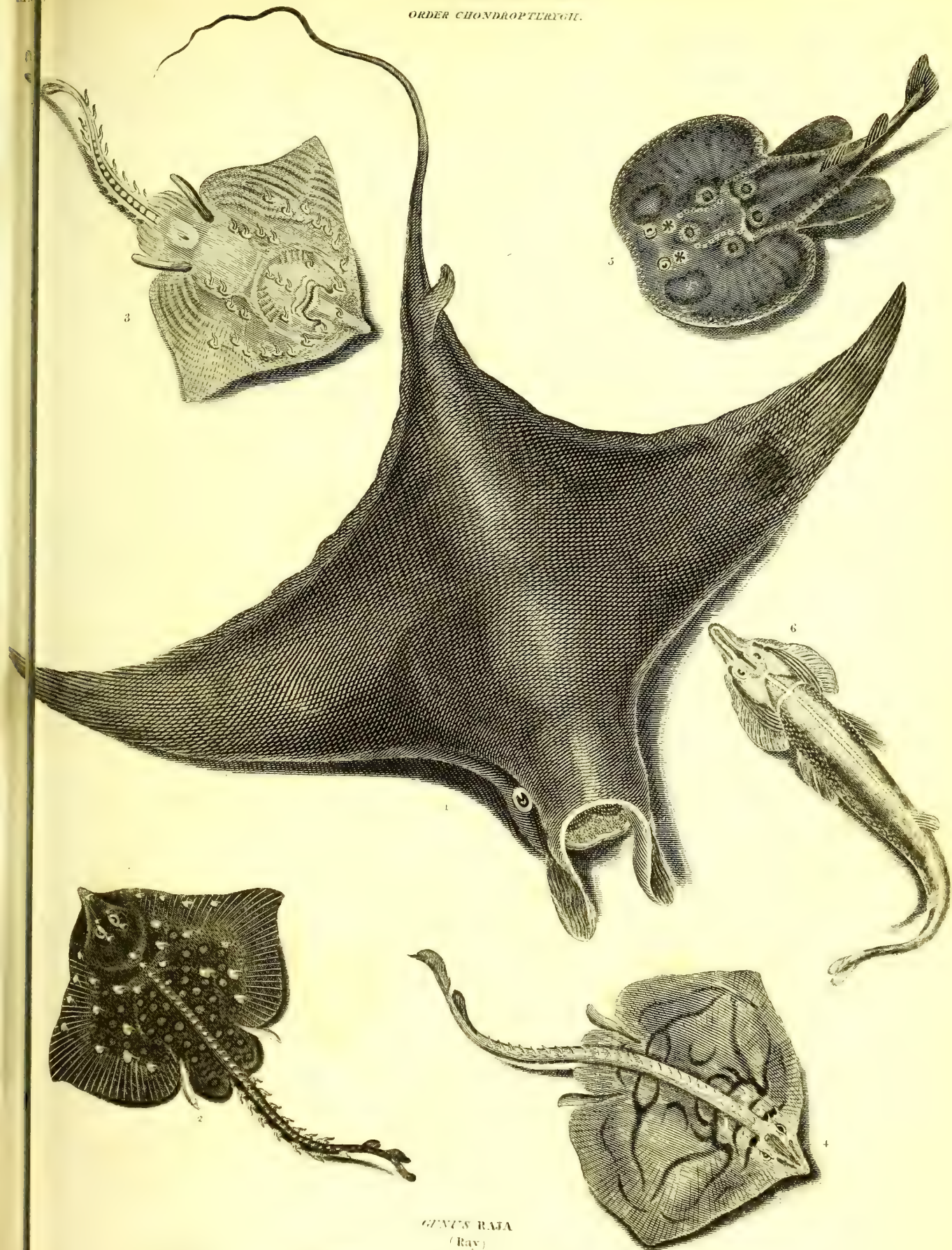
ZEBRA S.

RETICULATED SP.









GENUS RAY  
(Ray)

1. *R. diabolus*.  
DEMON R.

2. *R. diabolus*.  
THORNBACK, and the common

3. *R. diabolus*.  
UNDULATED R.

4. *R. diabolus*.  
ELECTRIC R.

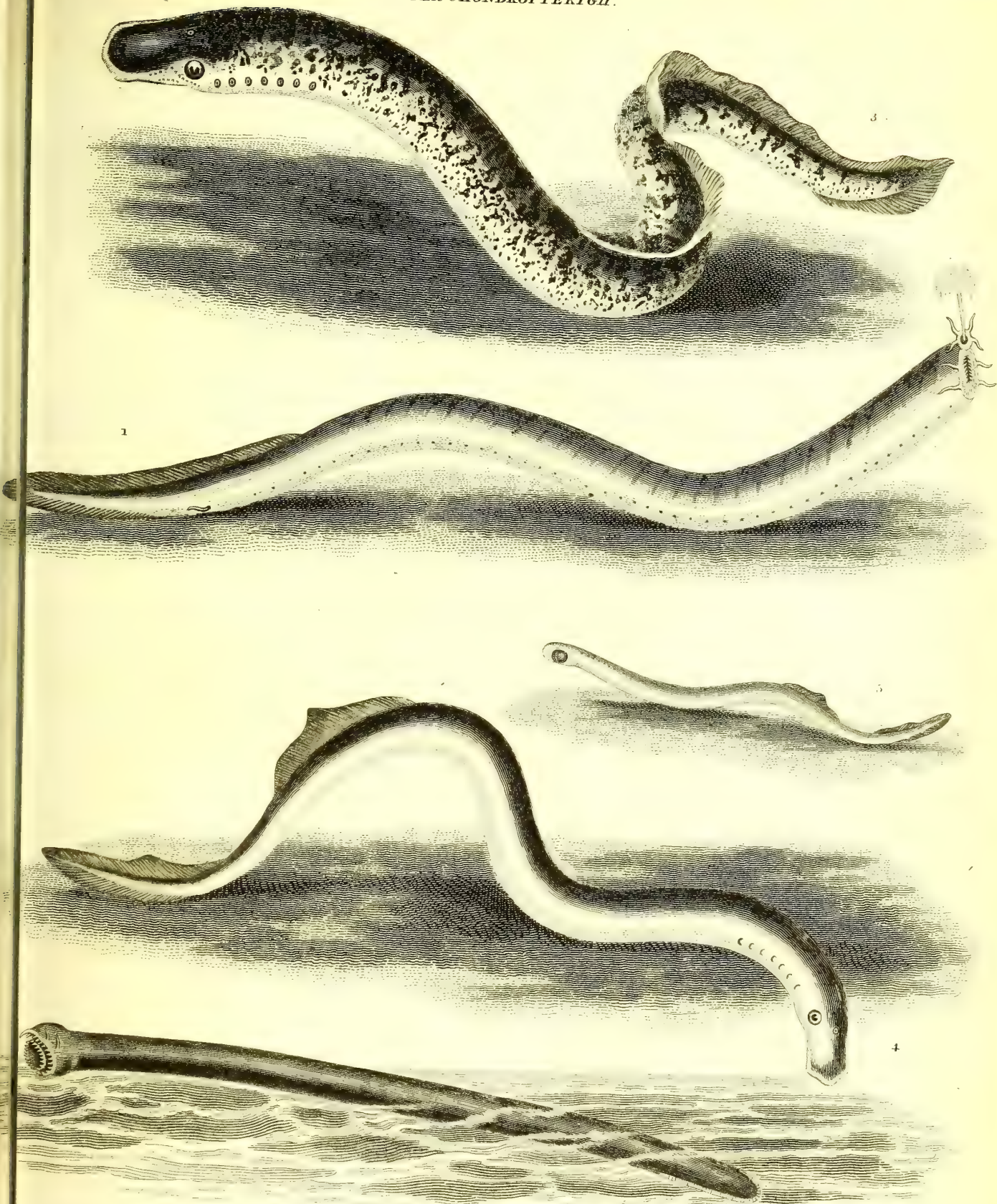
5. *R. diabolus*.  
LONG NOSED R.







ICHTHYOLOGY.  
ORDER CHONDROPTERYGII.



G. GASTROBRANCHUS                      GENUS PETROMYZON  
1 G. Coccus - 2 G. Dombeyi - 3 P. marinus - 4 P. fluviatilis - 5 P. fluviatilis Jun.  
Hag Fish   Dombeyan HF. Marine Lamprey   River Lamp                      under surface

Published as the Act directs. Nov. 1. 1817 by Longman Hurst Rees Orme & Brown Paternoster Row







# ENTOMOLOGY

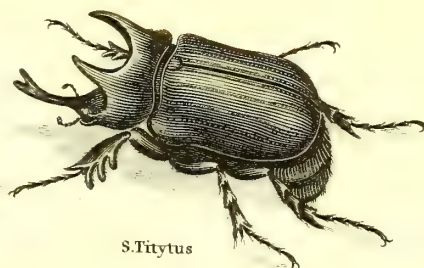
Order Coleoptera.

GENUS SCARABÆUS.

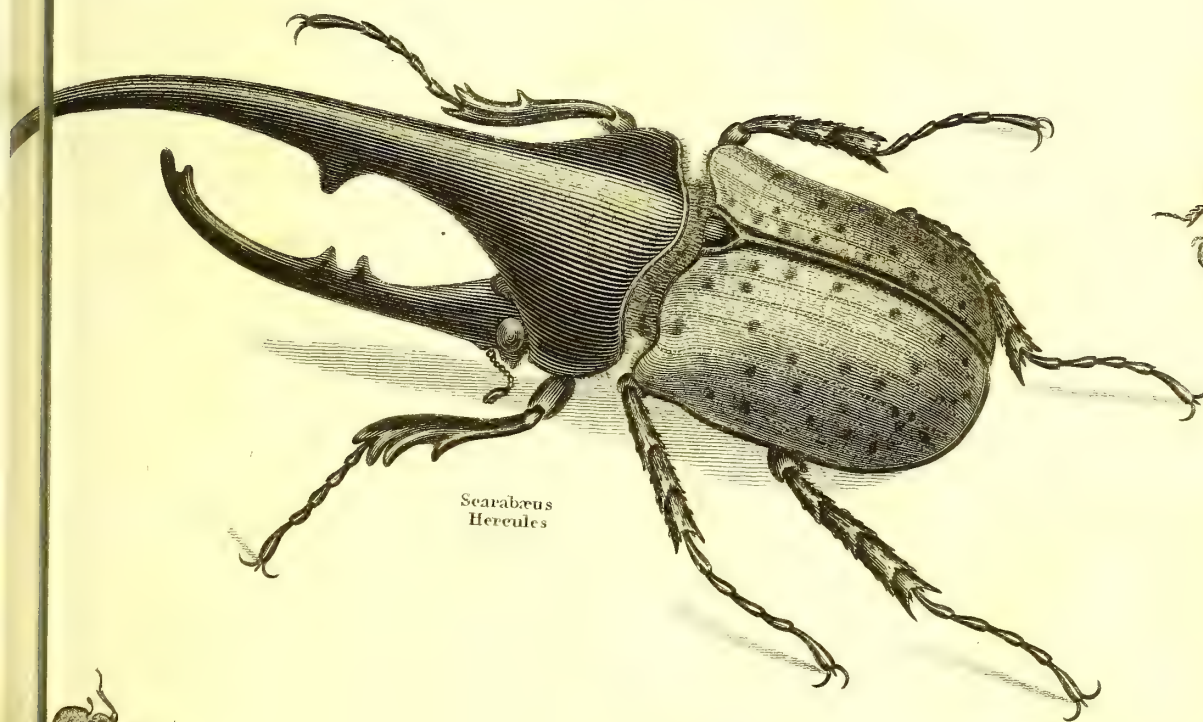
PLATE I



S. Chorozeus



S. Tityus



Scarabeus  
Hercules



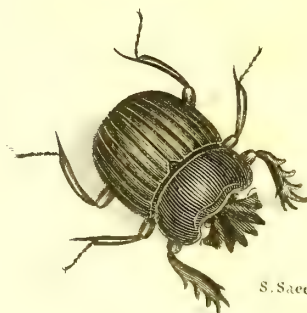
S. Carnifex  
male



S. Califex

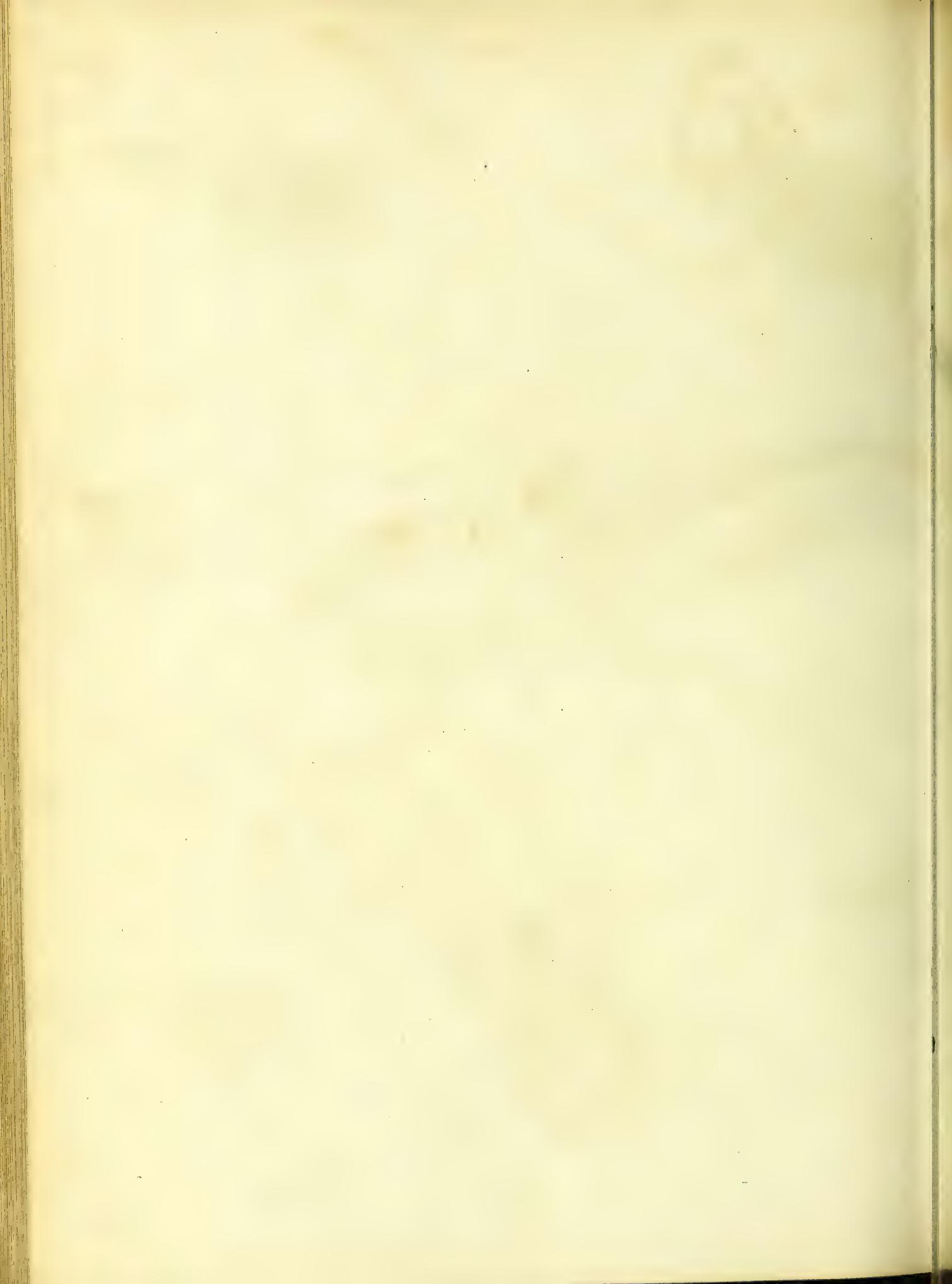


S. Molossus



S. Saecr





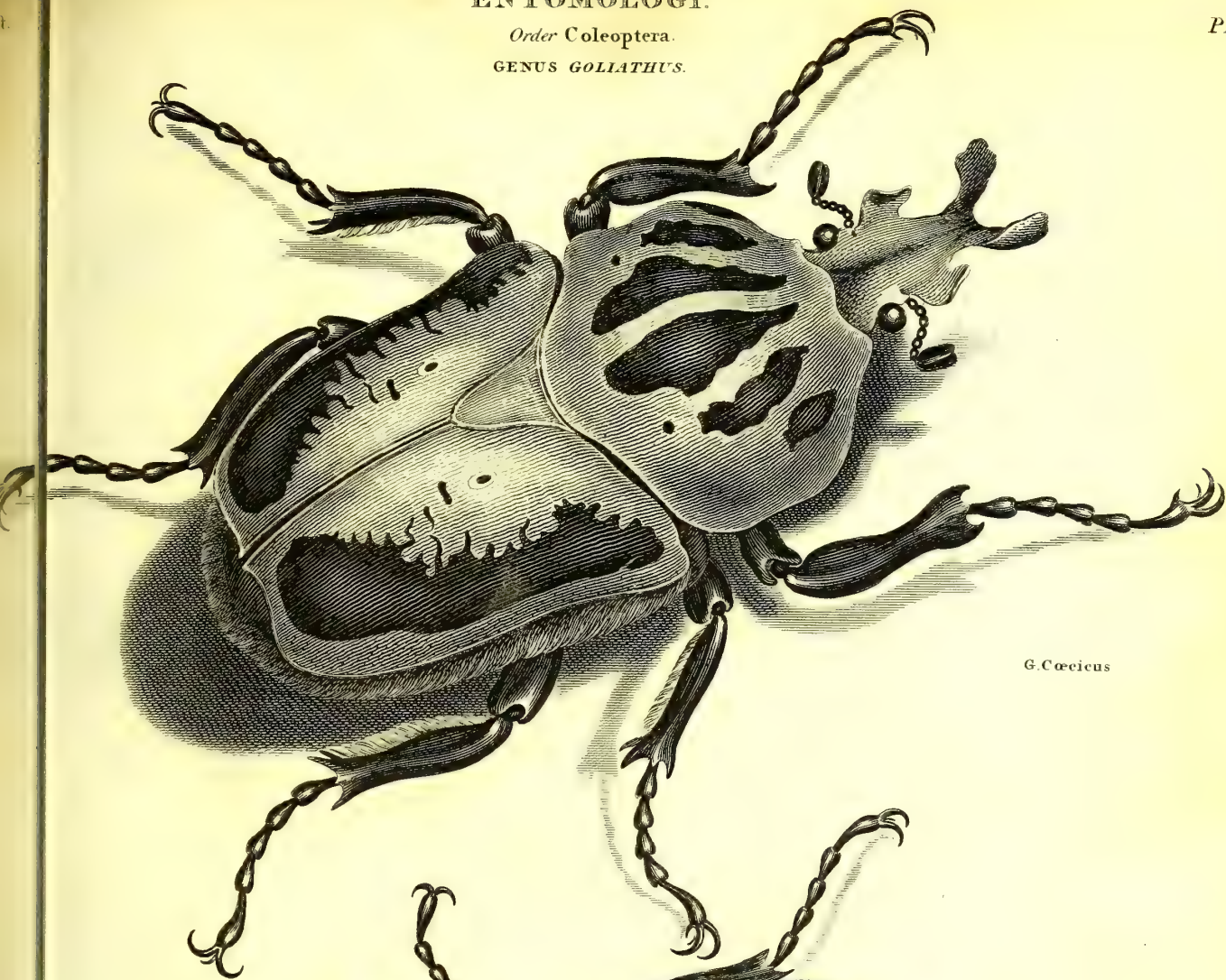


ENTOMOLOGY.

Order Coleoptera.

GENUS GOLIATHUS.

PLATE I.



*G. Cœcius*



*G. magnus*

Milton Culp.









- 1 *L. cervus*
- 2 *L. inermis*
- 3 *D. viginti guttatus*
- 4 *D. sex dentatus*
- 5 *D. brachypterus*
- 6 *D. pedicularius*
- 7 *D. picipes*
- 8 *S. haemorrhoidalis*
- 9 *S. rufipes*
- 10 *S. quadri guttata*
- 11 *S. marginalis*
- \* magnified







Order Coleoptera.



12. *B. pubescens*

1. *B. polegraphus* - 2. *P. typographus* - 3. *B. piniperda* - 4. *P. scotias* - 5. *P. imperialis* - 6. *P. sex punctatus* - 7. *P. fuscicornis*

9. *H. unicolor* - 10. *H. planus* - 11. *G. natator* - \* magnified - † under surface







Order Coleoptera.

NB. Cistela is a Fabrician genus & answers to the *Cryptocephalus* of Linnæus.  
GENUS *BYRRHUS* - *G. ANTHRENUS* - *G. CISTELA* - *G. SILPHA* - *G. MELYLIS*.

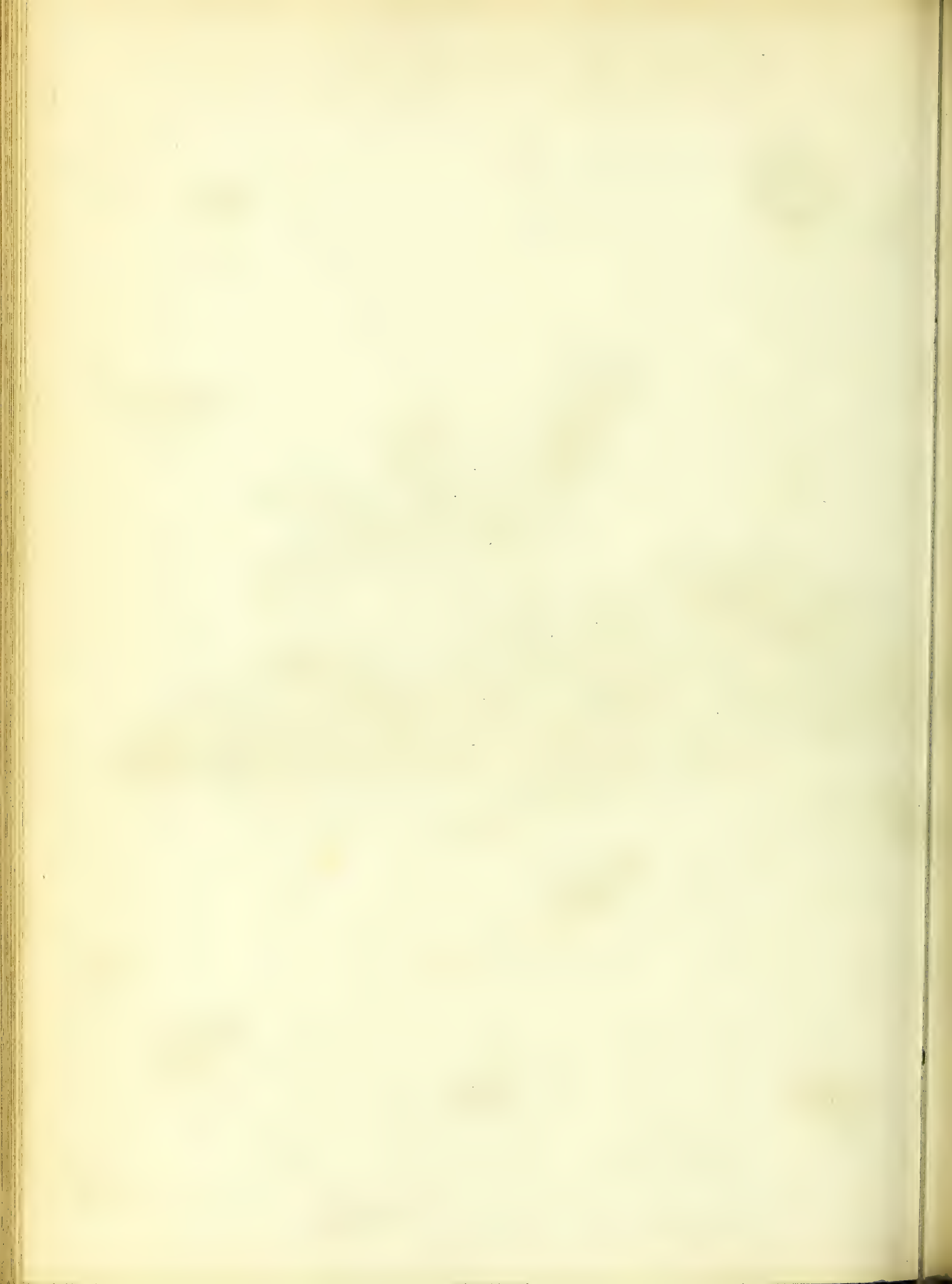


5 *C. lepturoides*  
6 *S. germanica*  
7 *S. vespillio*  
8 *S. thoracica*

9 *S. humator*  
10 *S. obscura*  
11 *S. quadrimaculata*

12 *S. sinuata*  
13 *M. viridis*  
\* *marginata*







# ENTOMOLOGY.

Order Coleoptera.

PLATE II.

GENUS *OPATRUM* - *G. TRITOMI* - *G. TETRATOMI* - *G. CASSIDA*.



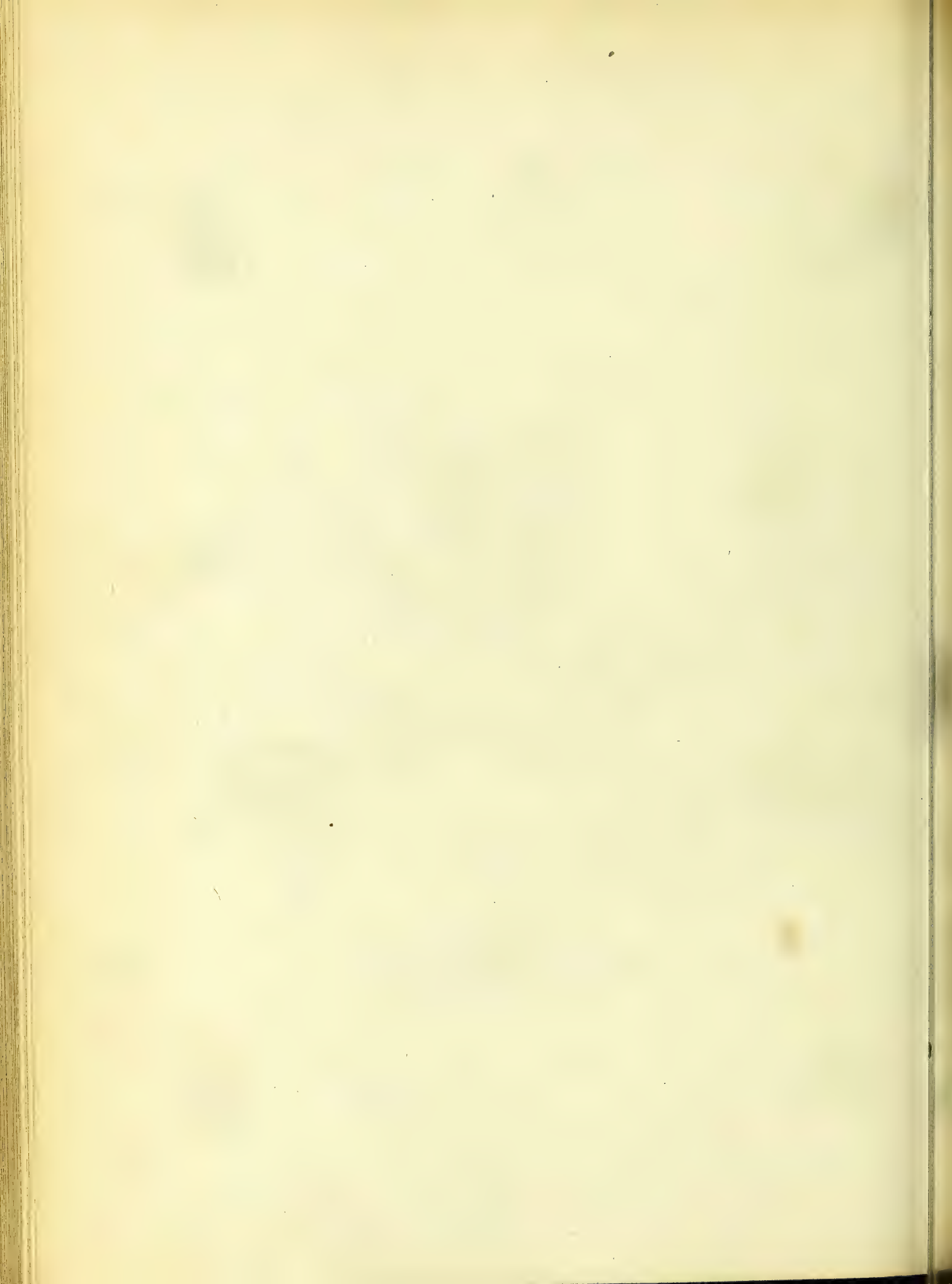
1. *C. bulbosum* - 2. *C. rufipes* - 3. *C. pilosa* - 4. *C. cinnamomeum* - 5. *C. fungorum* - 6. *C. ancora* - 7. *C. grassa* - 8. *C. lateralis* - 9. *C. cruentata* - 10. *C. maculata*.

\* magnified, † under surface

Published as the Act direct, Sep. 1. 1813, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

Willen sculp.





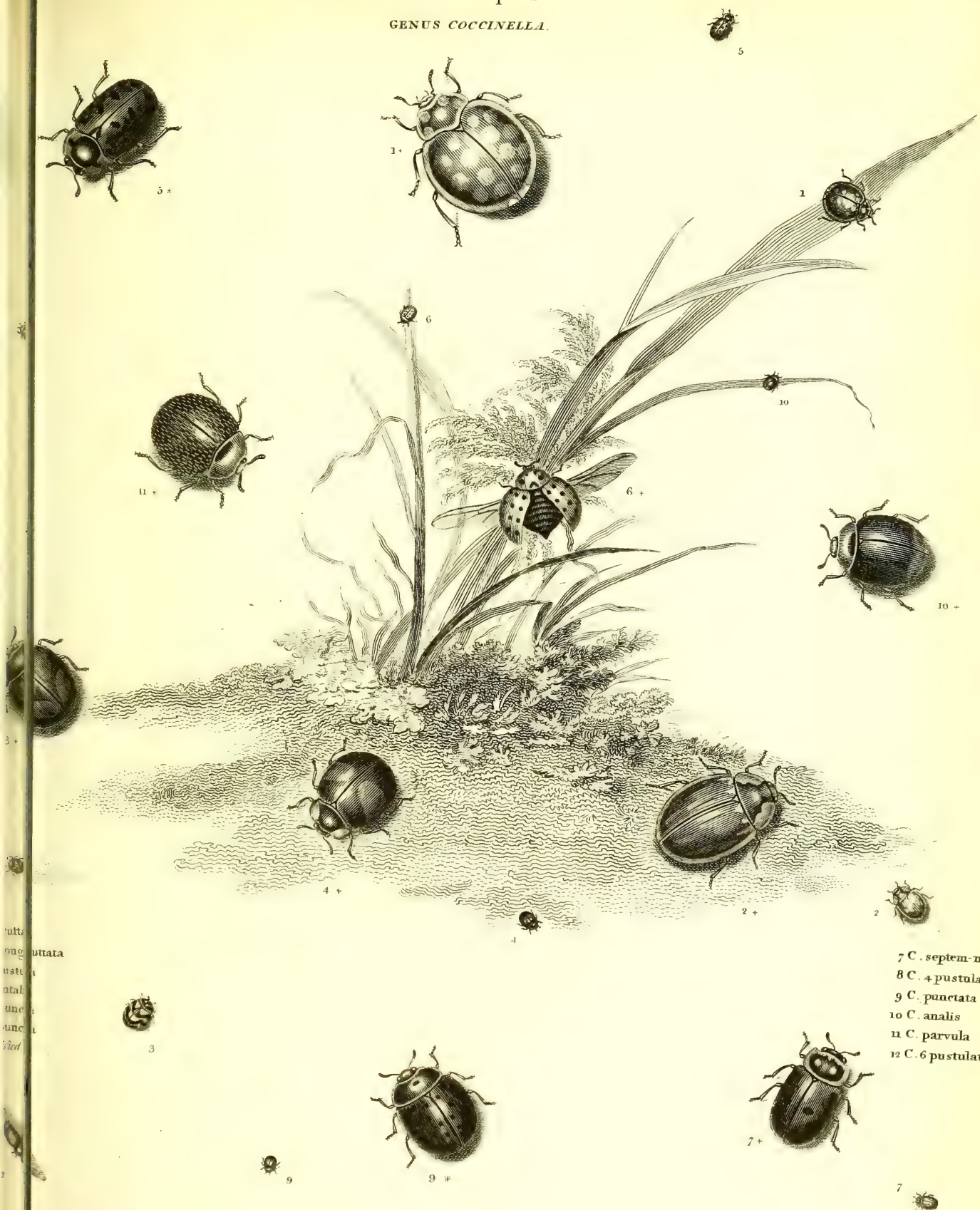


# ENTOMOLOGY.

Order Coleoptera.

GENUS COCCINELLA.

PLATE XIII.



- 7 *C. septem-notata*
- 8 *C. 4-pustulata*
- 9 *C. punctata*
- 10 *C. analis*
- 11 *C. parvula*
- 12 *C. 6-pustulata*









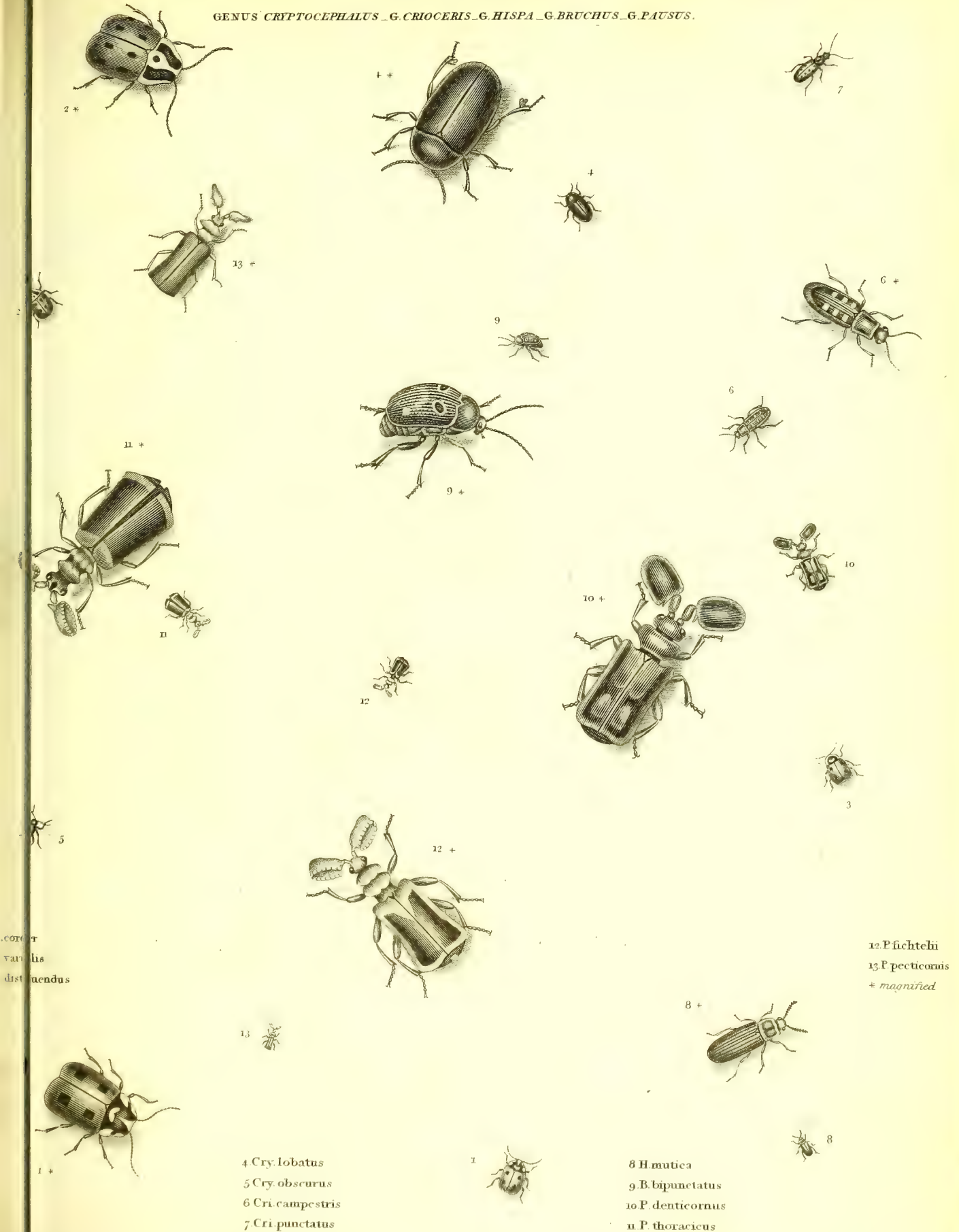
- 8 *C. boleti*
- 9 *C. l. guttata*
- 10 *C. marginalis*
- 11 *C. marginata*
- 12 *C. marginella*
- 13 *C. hannoveriana*
- \* *marginella*







GENUS *CRYPTOCEPHALUS* \_G. *CRIOCERIS* \_G. *HISPA* \_G. *BRUCHUS* \_G. *PAUSUS* .



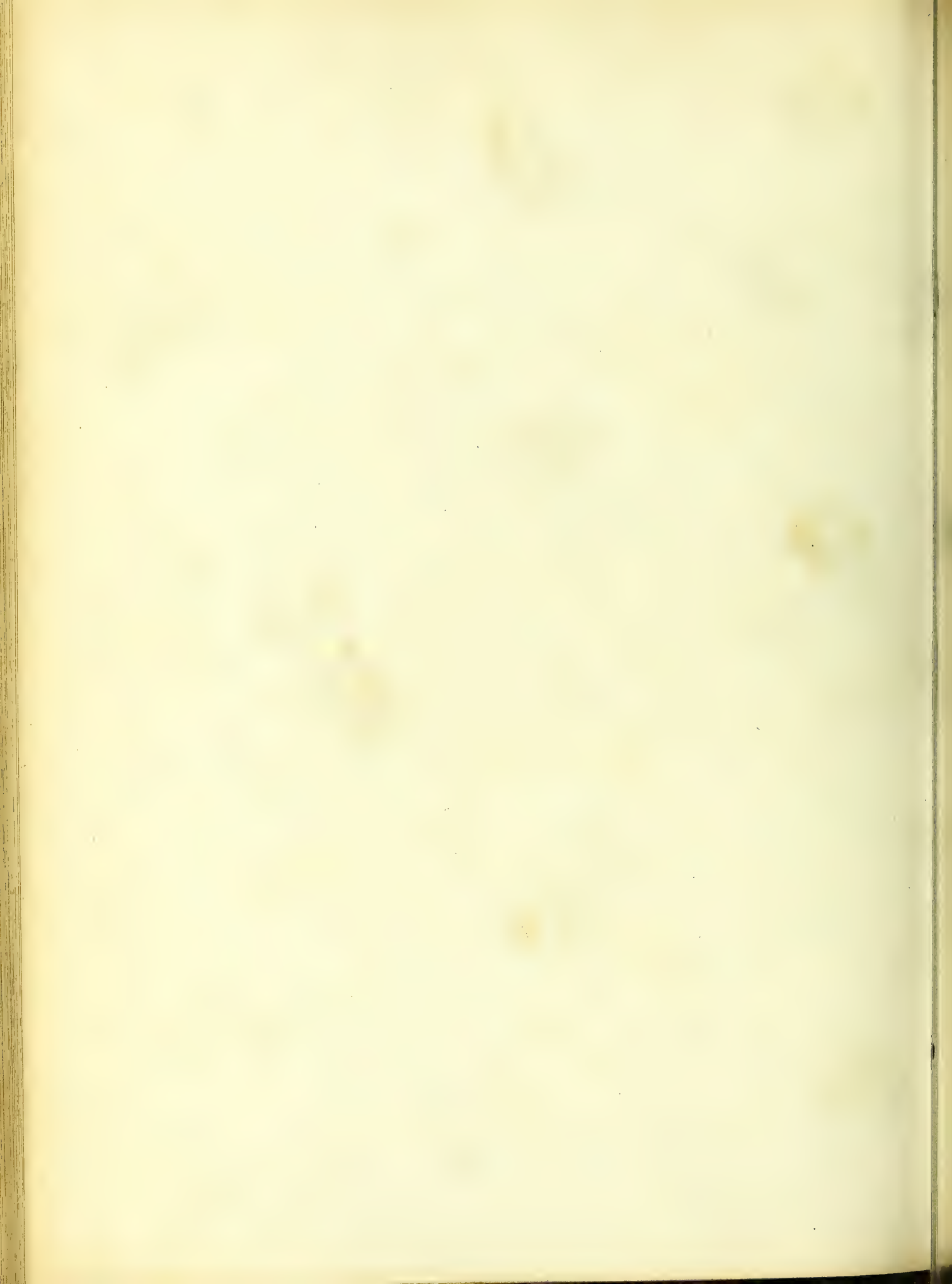
12 *P. fichtelii*  
13 *P. pectinatus*  
+ magnified

4 *Cry. lobatus*  
5 *Cry. obscurus*  
6 *Cri. campestris*  
7 *Cri. punctatus*

8 *H. mutica*  
9 *B. bipunctatus*  
10 *P. denticornis*  
11 *P. thoracicus*

*Milner sculp*



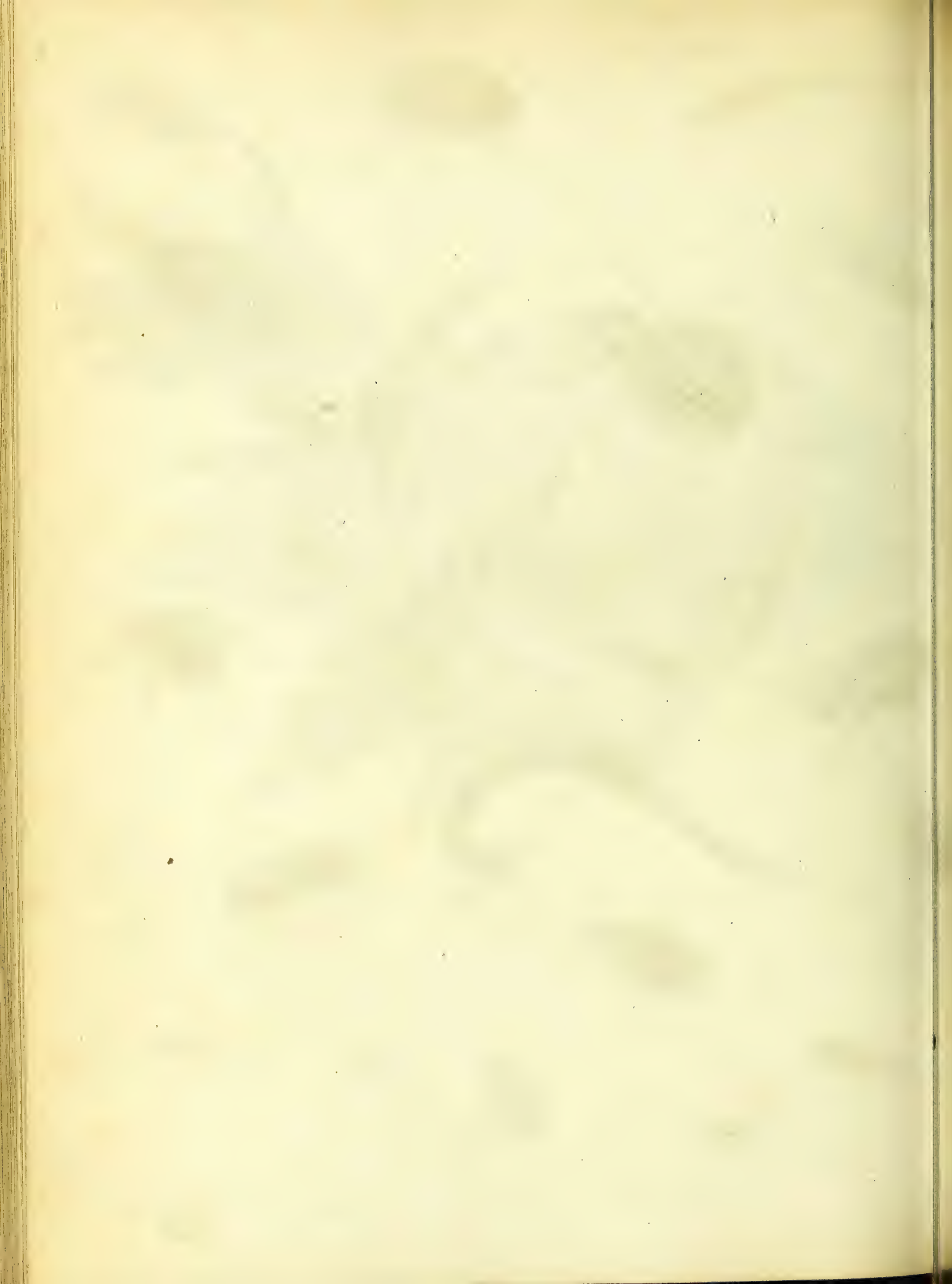






- 9 *C. assimilis*
- 10 *C. rhinomacer-*  
*anchoragus*
- 11 *C. regalis*
- 12 *C. bilineatus*
- 13 *C. viridis*
- 14 *C. bacchus*
- 15 *C. betulæ*
- \* *magnified*







# ENTOMOLOGY.

Order Coleoptera.

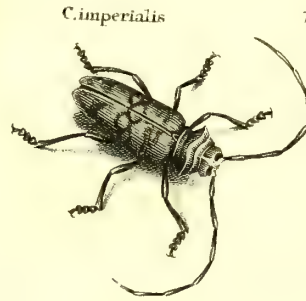
PLATE I.

GENUS CERAMBYX - G. PRIONUS - G. LAMIA - G. CILYTUS

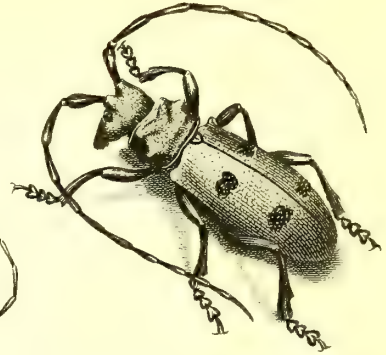
G. SAPERDA - G. RHAGIUM.



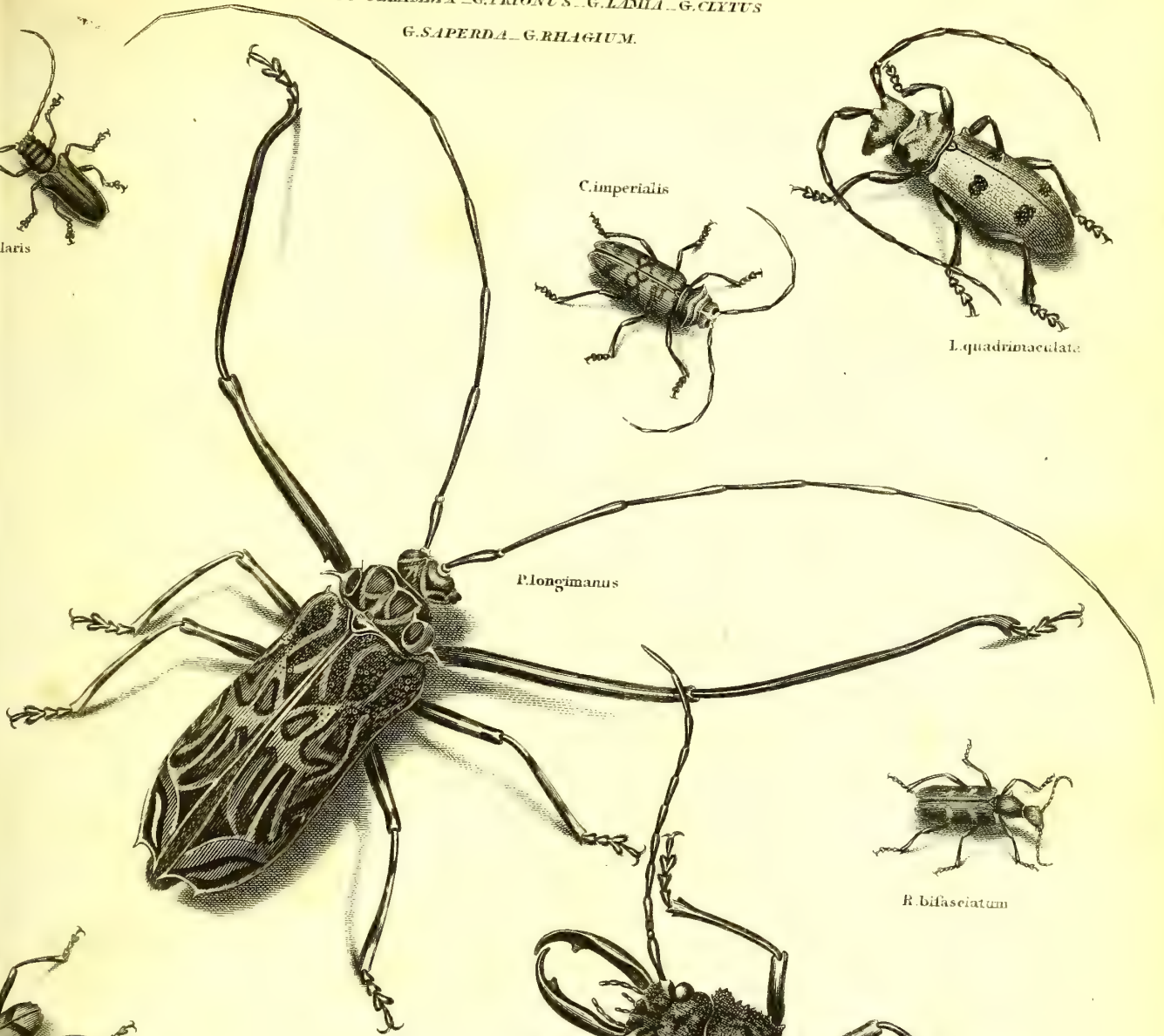
C. collaris



C. imperialis



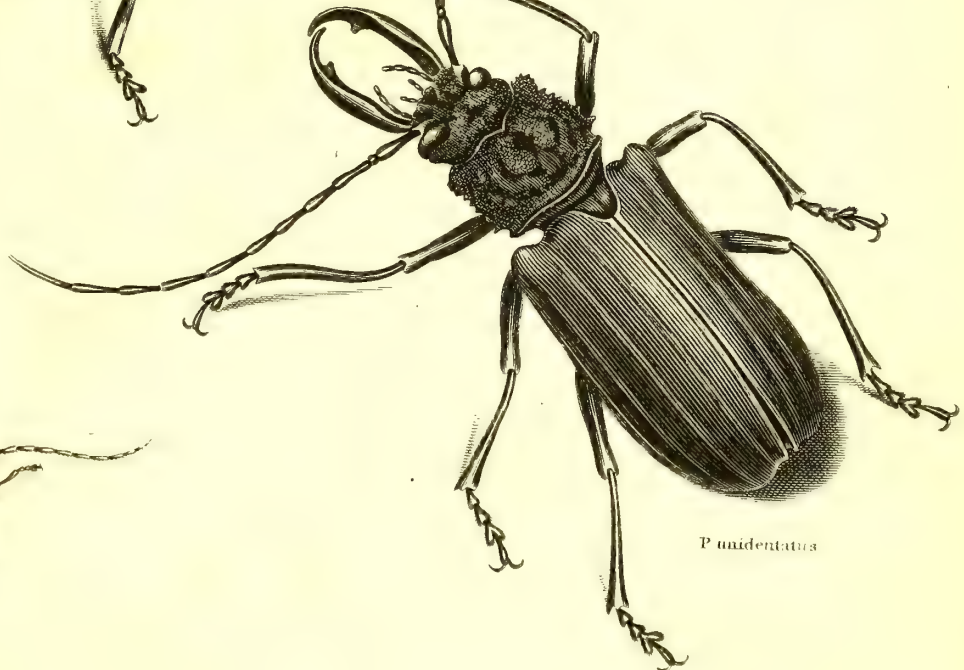
L. quadrimaculata



P. longimanus



R. bifasciatum



P. unidentatus



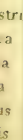
S. nigro-virens







—



stri  
a  
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a  
is  
s

stri  
a  
a  
a  
is  
s





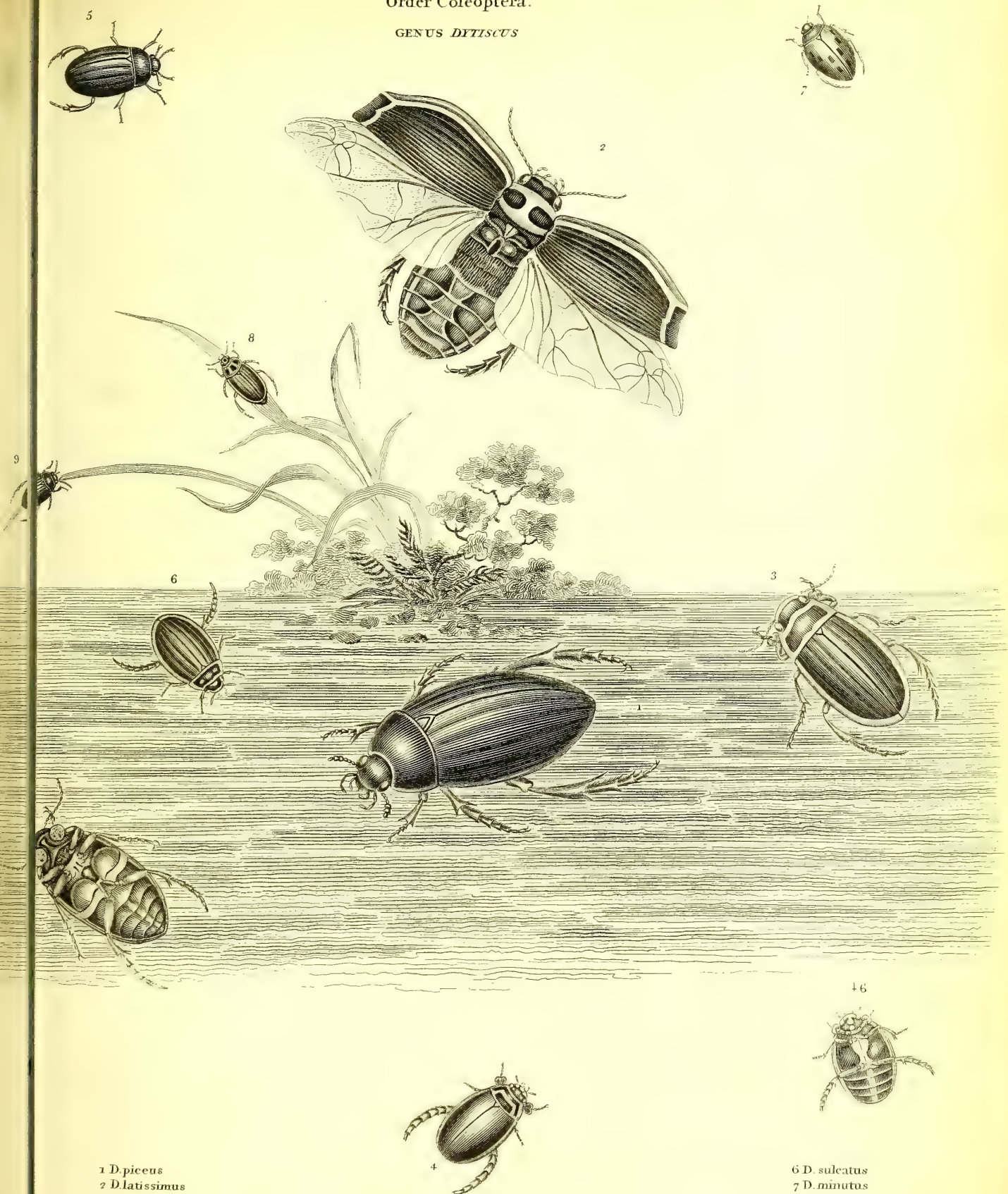


## ENTOMOLOGY.

Order Coleoptera.

GENUS *DYTISCUS*

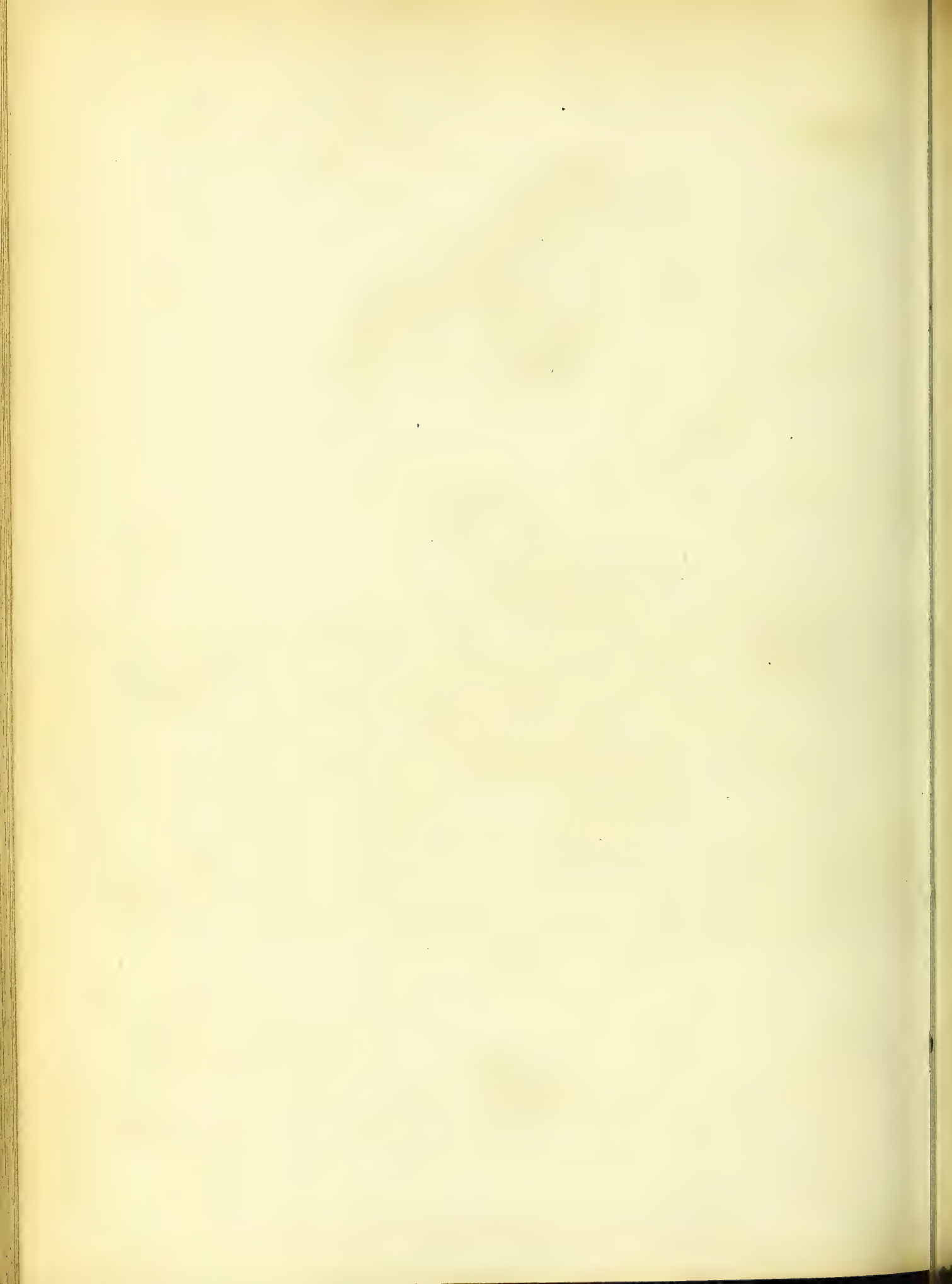
PLATE XII.



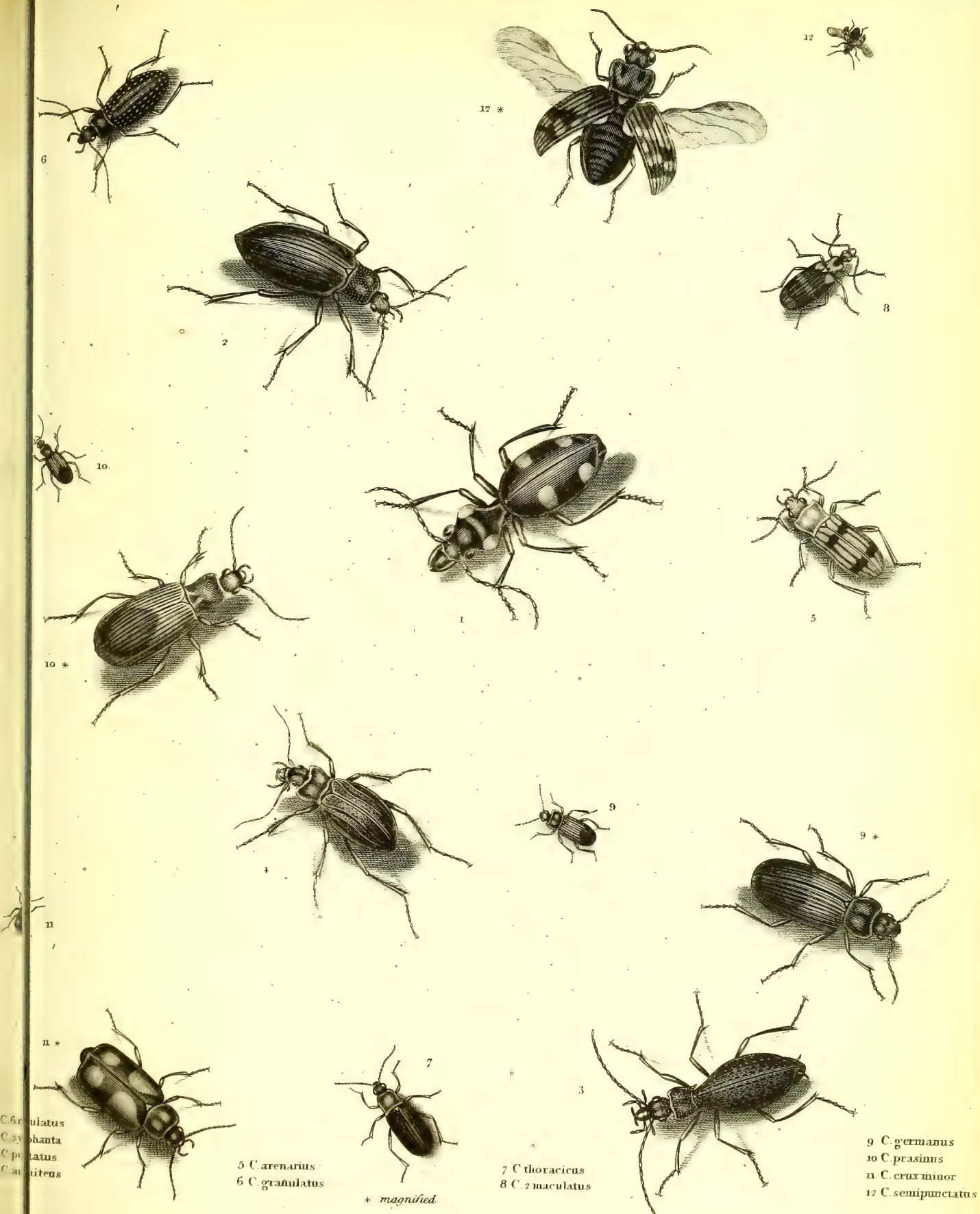
- 1 *D. piceus*  
 2 *D. latissimus*  
 3 *D. marginatus*  
 4 *D. cinereus*  
 5 *D. caraboides*

- 6 *D. sulcatus*  
 7 *D. minutus*  
 8 *D. bipustulus*  
 9 *D. uliginosus*  
 46 under surface

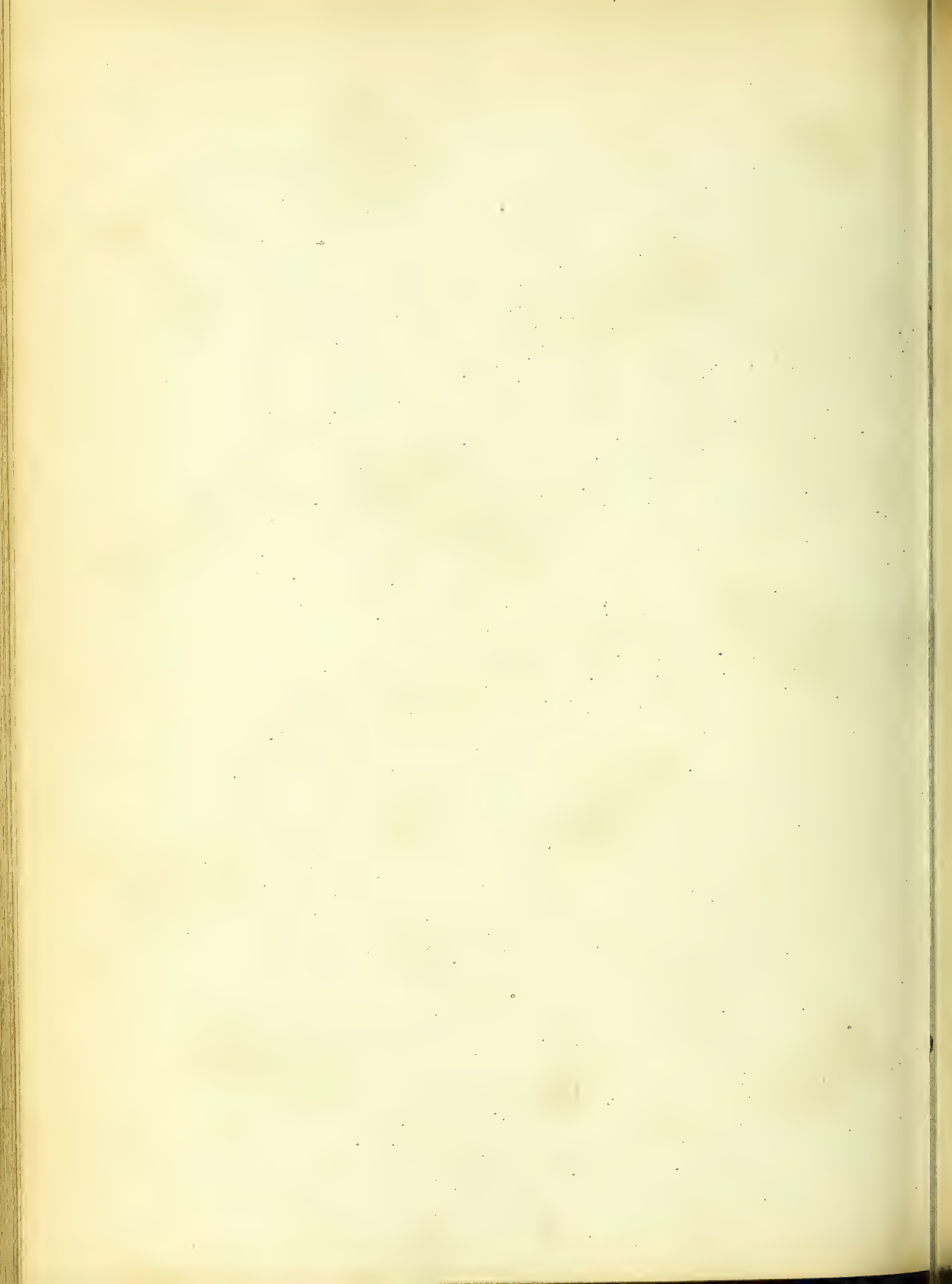














# ENTOMOLOGY.

Order Coleoptera.

GENUS *TENEBRIO* - *G. PINELLA* - *G. HELOPS*.

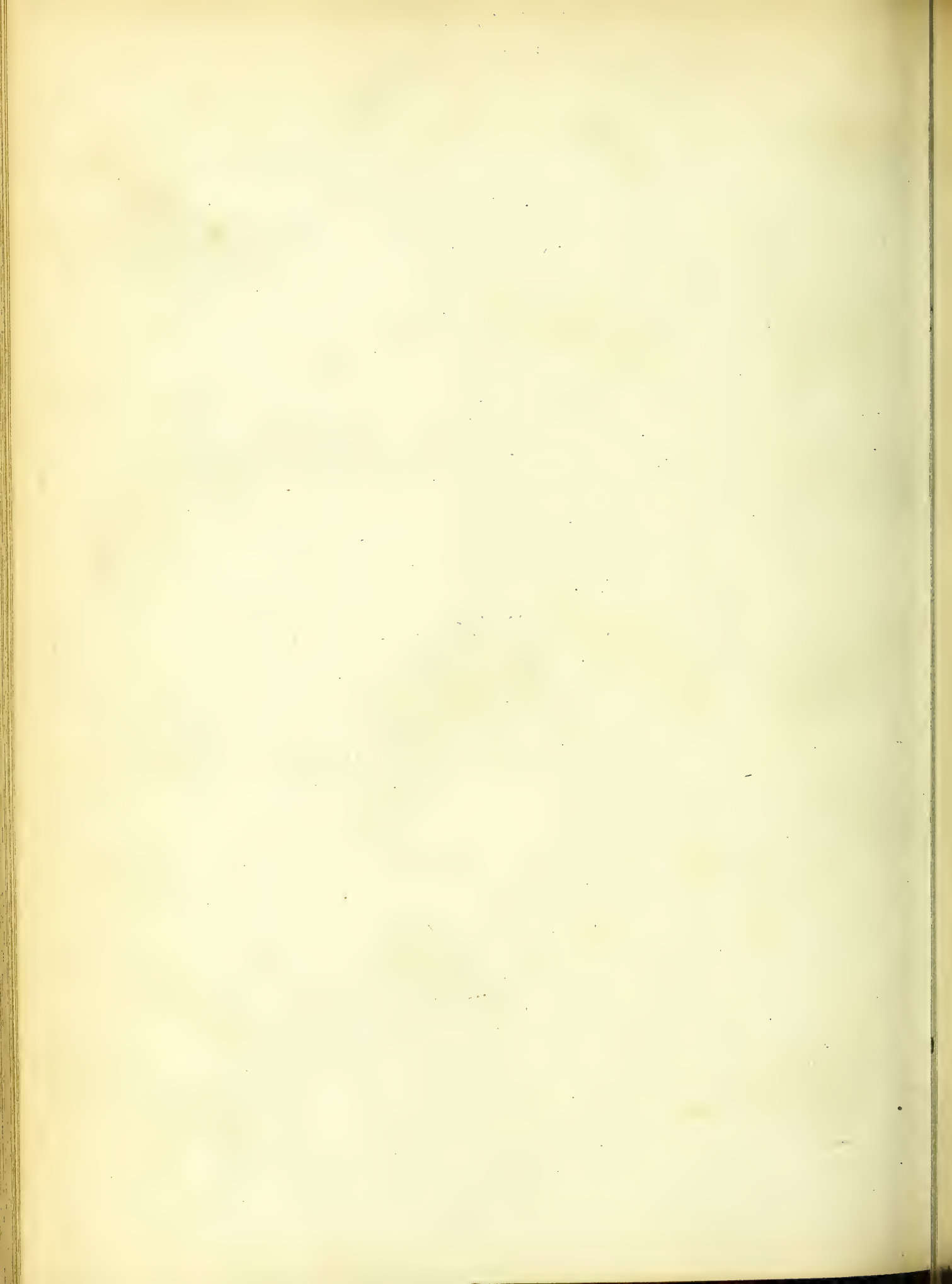
PLATE XI.



5 *T. culinaris*  
 6 *T. ferrugineus*  
 7 *P. gages*  
 8 *P. sepidium*

9 *P. tragosia*  
 10 *H. lanipes*  
 11 *H. fasciata*  
 12 *H. fusca*  
 + *magnificat*





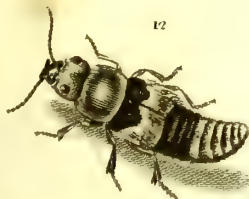
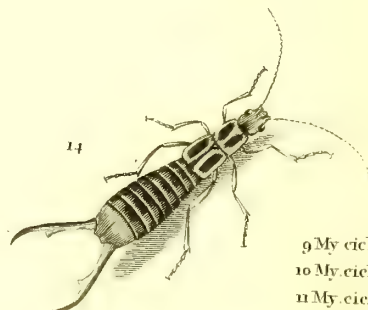
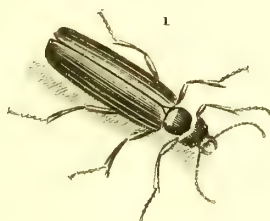
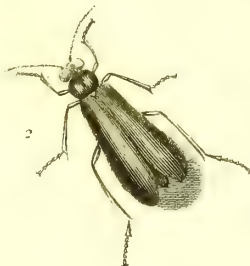
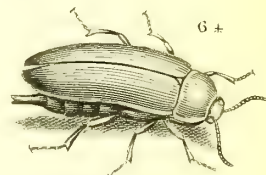
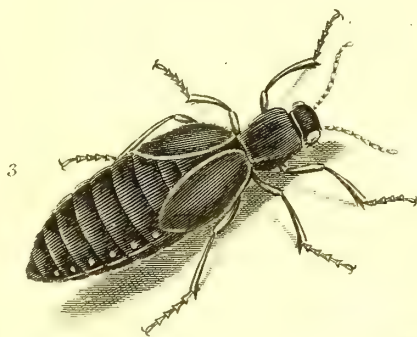
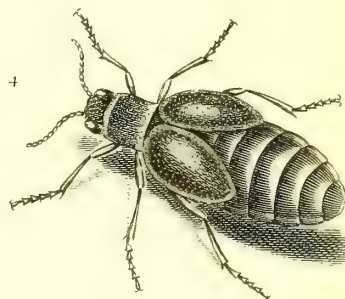
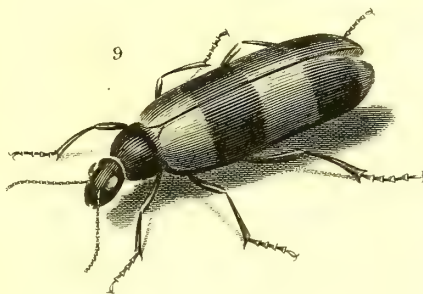
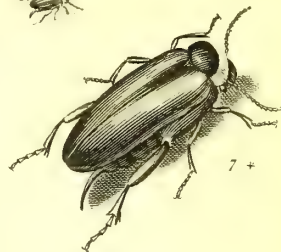
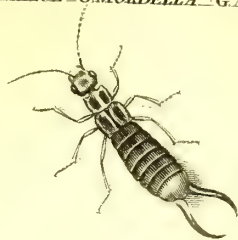


# ENTOMOLOGY.

Order Coleoptera.

G. LYTTA - G. MELOE - G. MORDELLA - G. MYLARRIS - G. STAPHYLINUS - G. FORFICULA.

PLATE



9 *My. cichorei* var.  
10 *My. cichorei* var.  
11 *My. cichorei* var.  
12 *S. hirtus*  
13 *F. gigantea*  
14 *F. gigantea*  
15 *L. schafferi*  
\* *magnificus*







# ENTOMOLOGY.

Order. Coleoptera.

PLATE III.

GENUS 12 *Hispa*



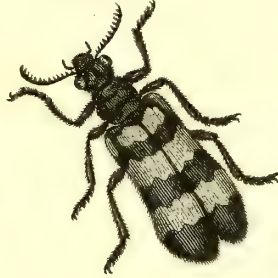
G.13 *Bruchus*



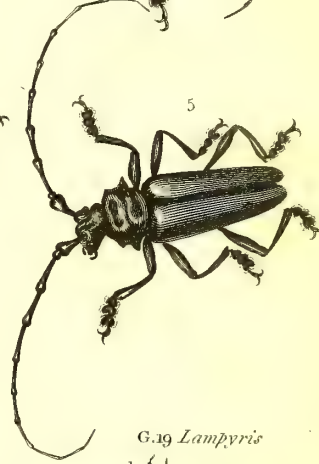
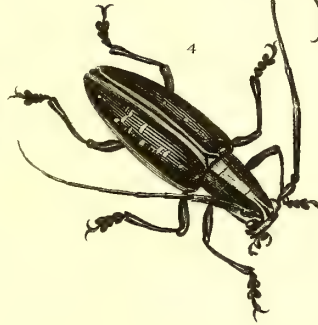
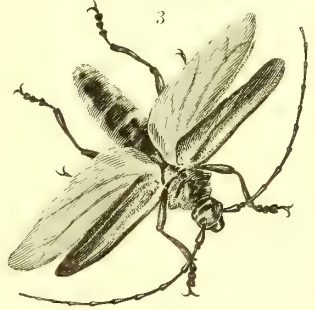
G.14 *Curculio*



G.15 *Attelabus*



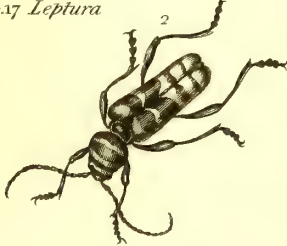
G.16 *Cerambyx*



G.18 *Necydalis*



G.17 *Leptura*



G.19 *Lampyrus*



G.20 *Cantharis*

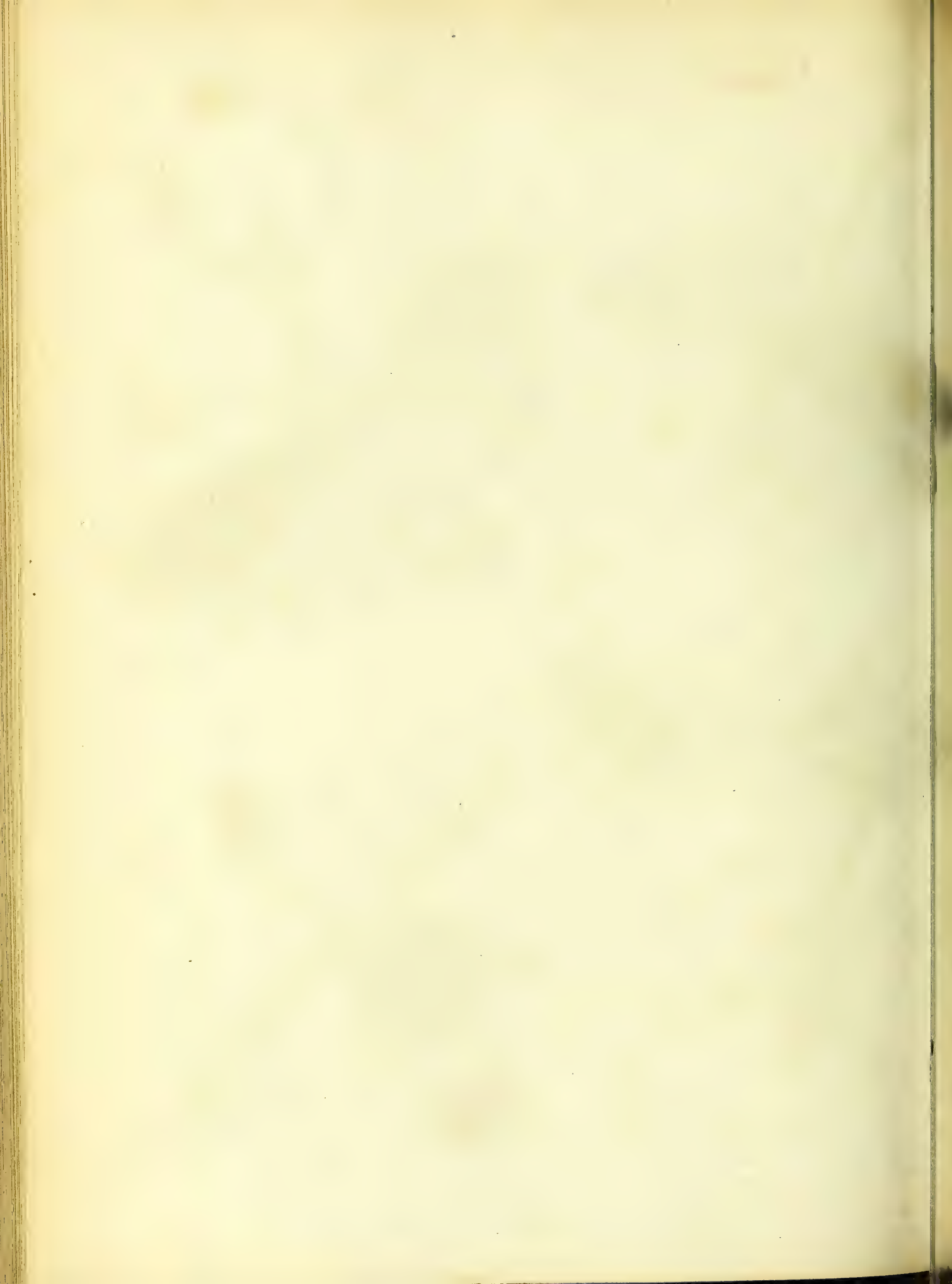


G.21 *Elater*



Milton sc





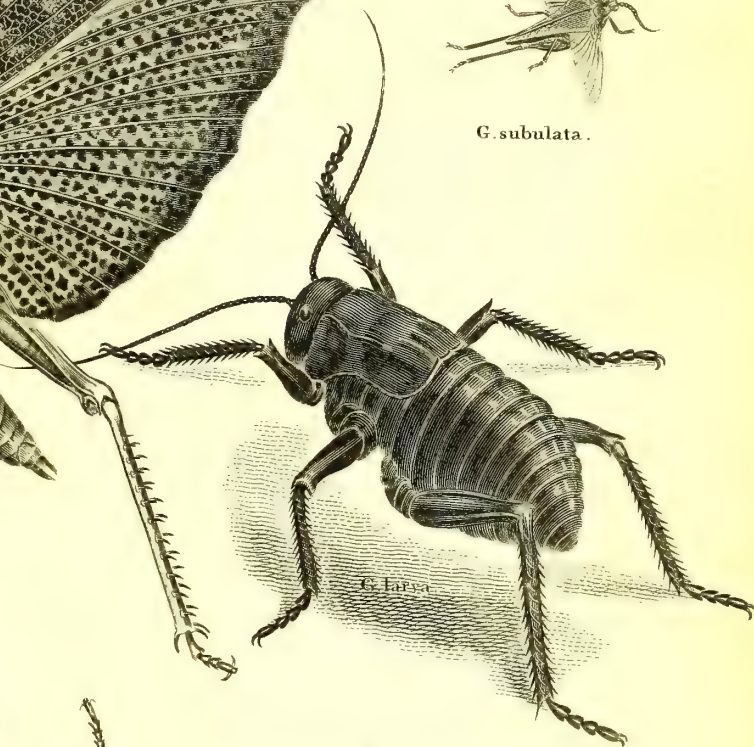
Order Hemiptera.

Genus GRILLUS.

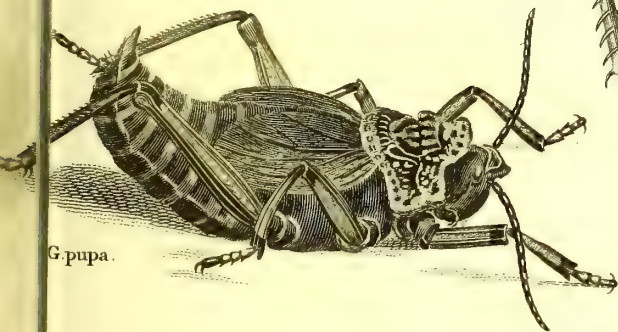
Gryllus Dux.



G. subulata.



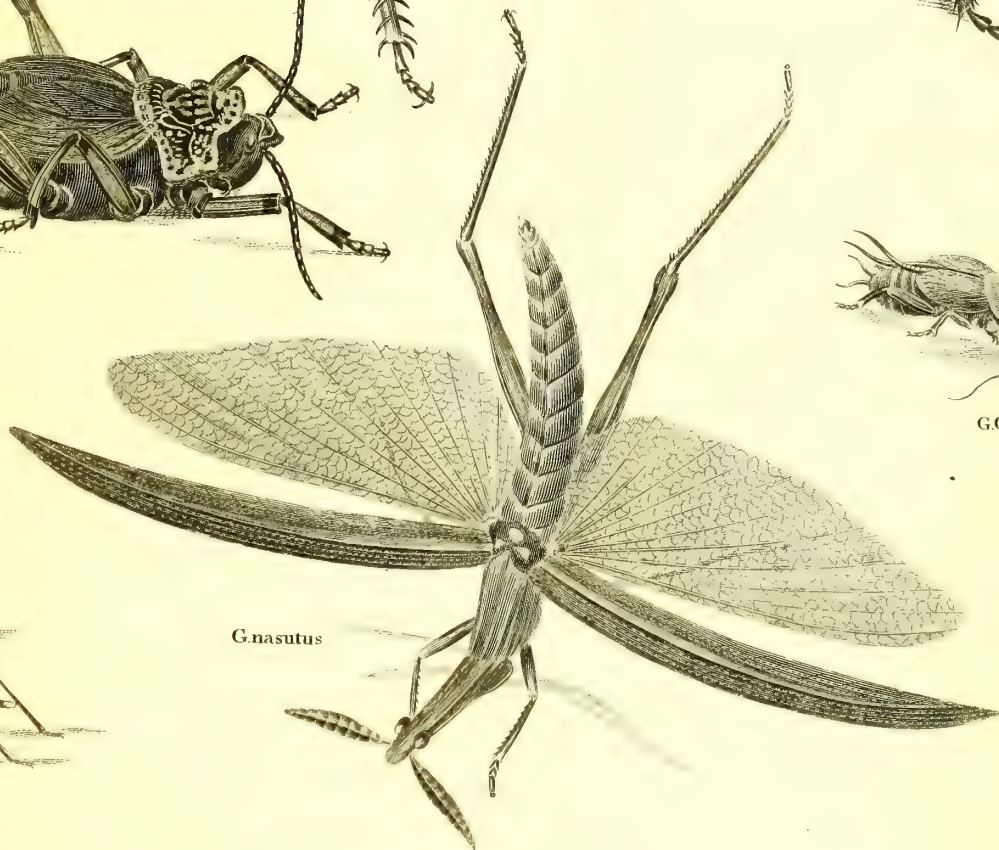
G. larva



G. pupa.



G. Gryllotalpa.

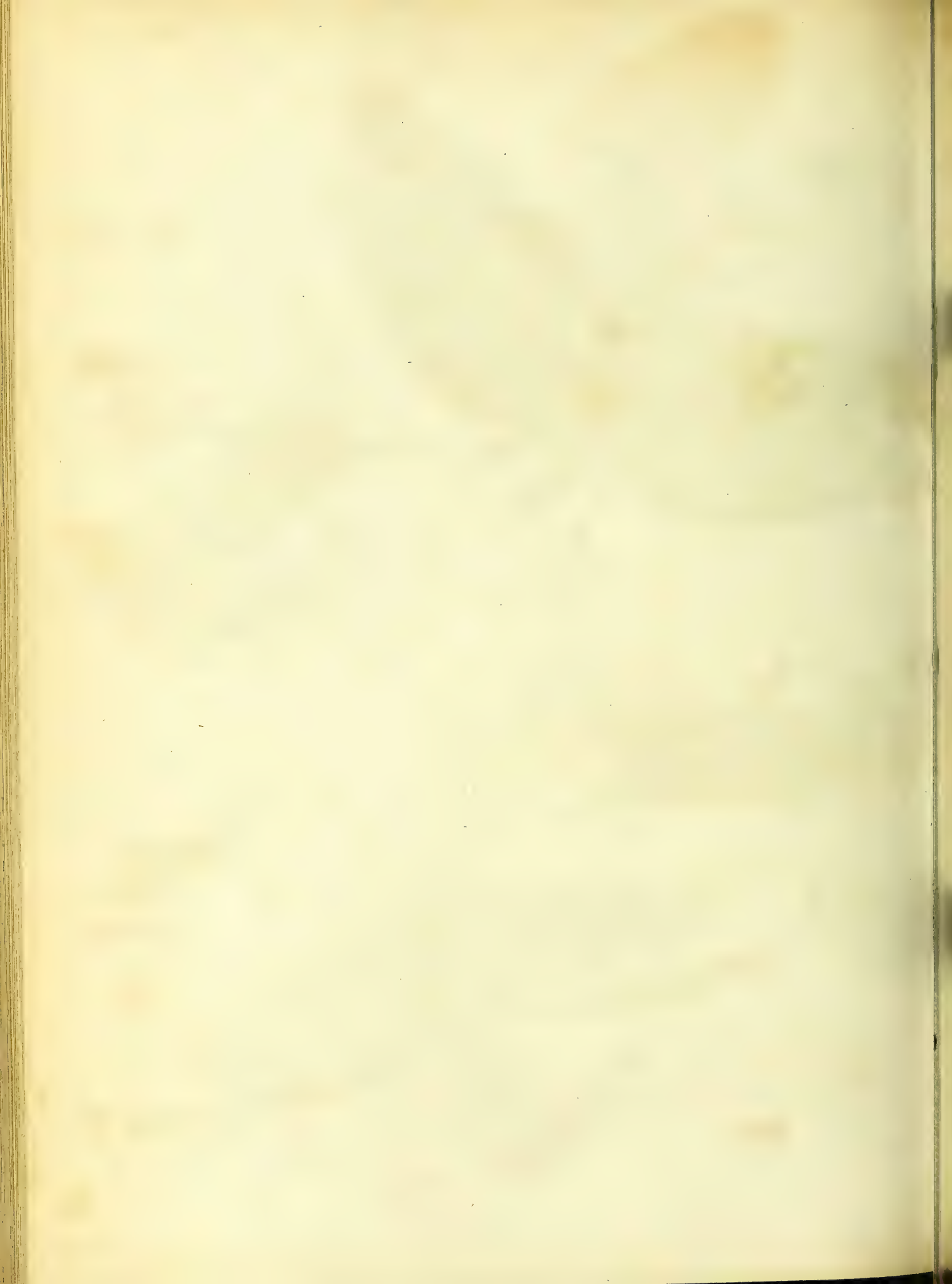


G. nasutus



Gryllus minor.





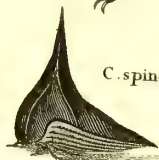
# ENTOMOLOGY.

Order Hemiptera.  
Gen. *FULGORA*. *G. CICADA*  
*G. NOTONECTA*.

PLATE III of Order H.



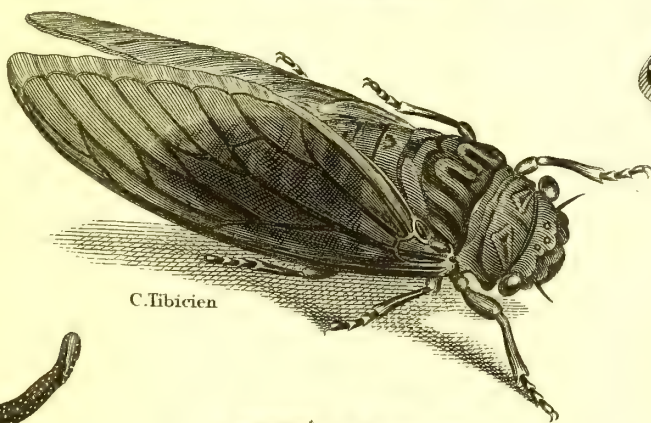
F. *Lanternaria*



C. *spinosa*



C. *stridula*



C. *Tibicini*



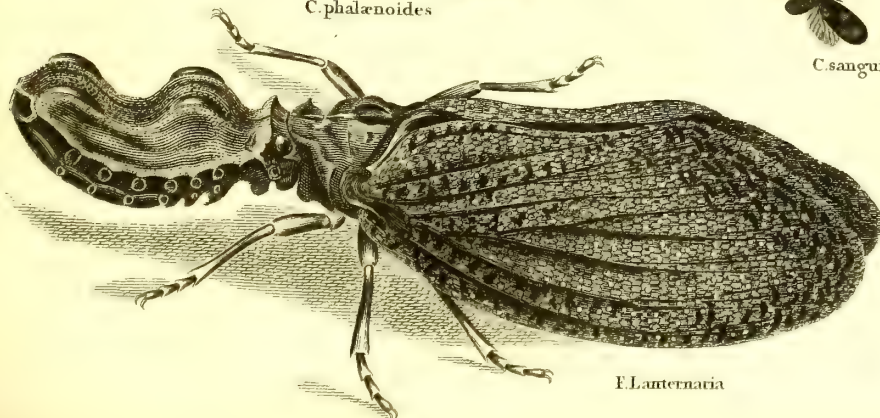
*Notonecta*  
*Glauca*



C. *phalaenoides*

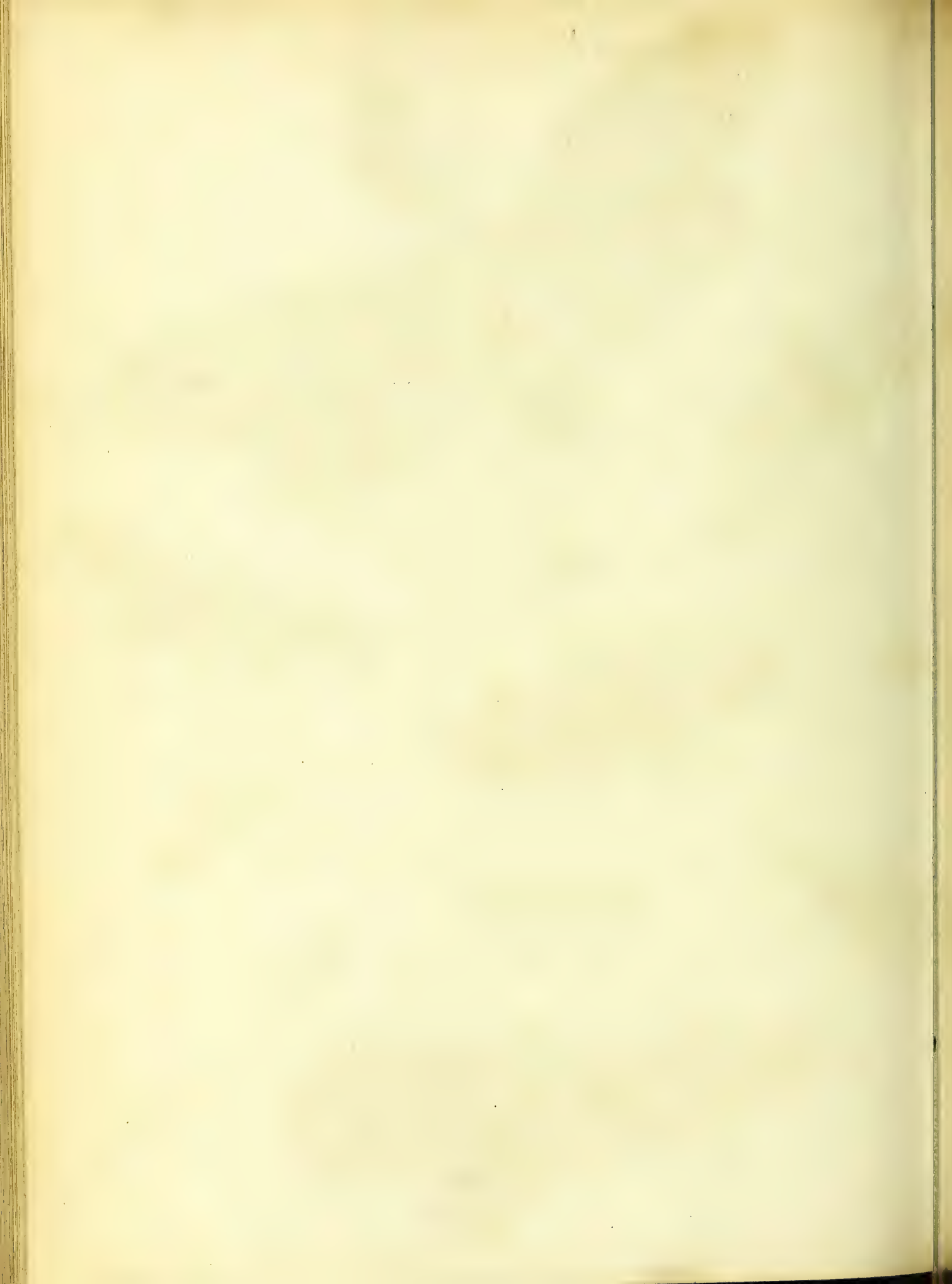


C. *sanguinolenta*



F. *Lanternaria*





# ENTOMOLOGY.

## Order Hemiptera.

GENUS CHERMES - G. CIMEX - G. COCCUS - G. NEP - G. THRIPS - G. APHIS.







ENTOMOLOGY.

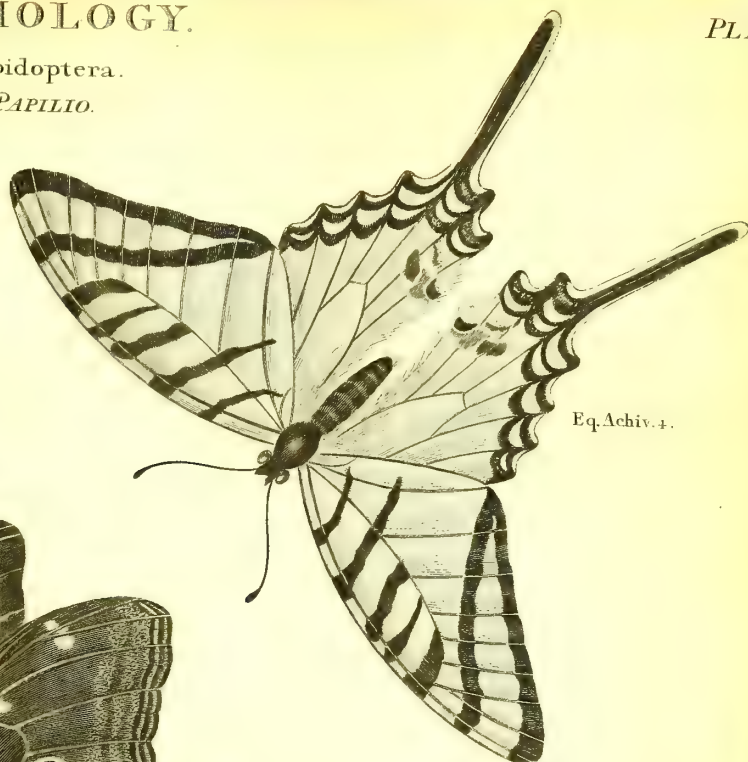
PLATE

Order Lepidoptera.

Genus *PAPILIO*.



Eq. Troës. 1.



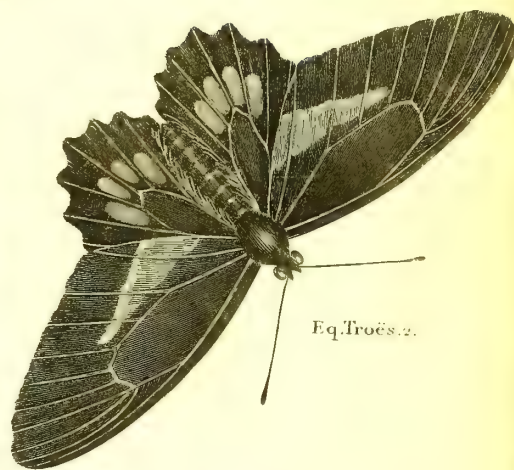
Eq. Achiv. 4.



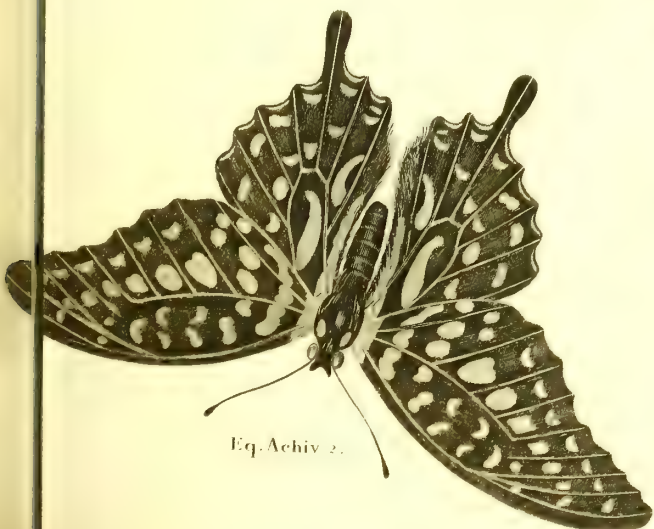
Eq. Achiv. 5.



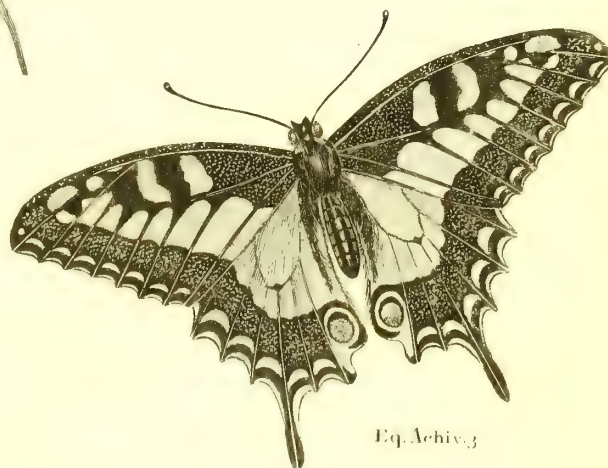
Eq. Achiv. 1.



Eq. Troës. 2.



Eq. Achiv. 2.



Eq. Achiv. 3.





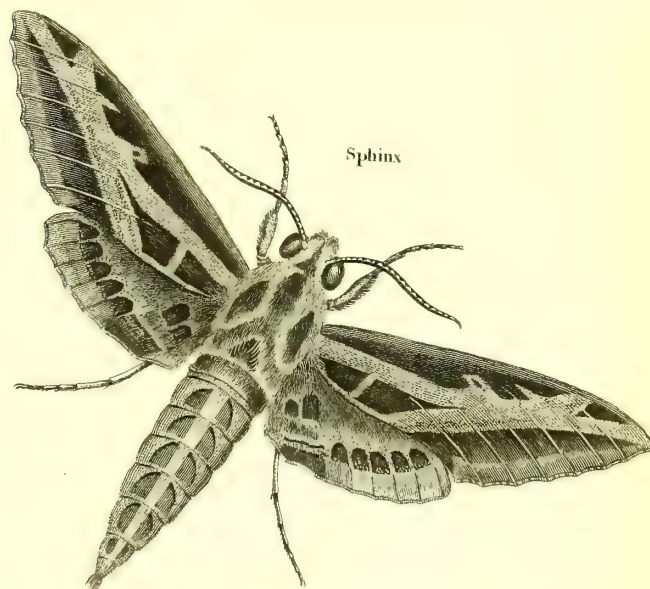
# ENTOMOLOGY.

Order Lepidoptera.

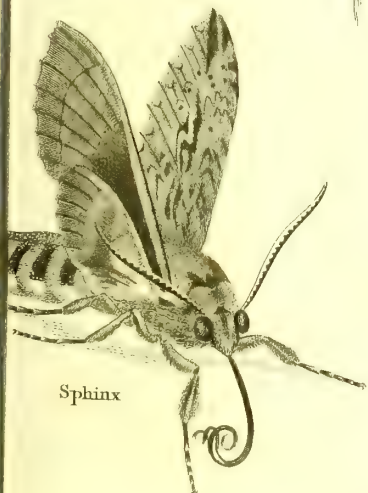
Genus SPHINX.



Sesia



Sphinx



Sphinx



Sesia



Zygaena



Sphinx



Sesia



Zygaena



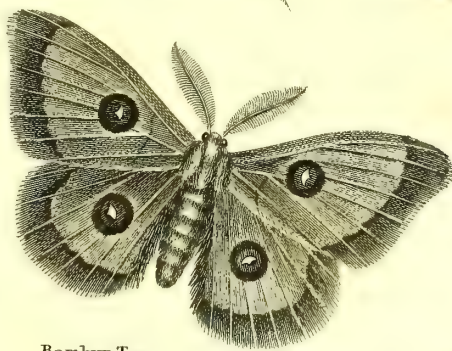




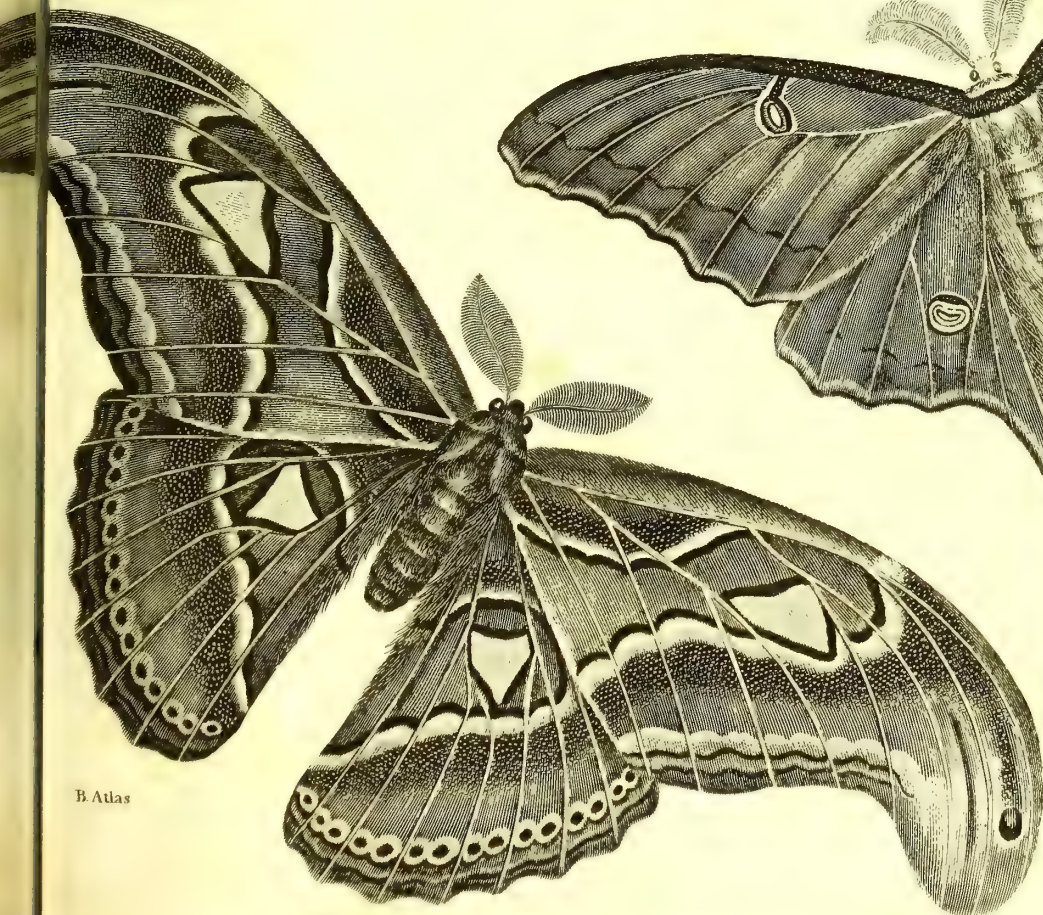
B. Laocoon



B. Pavonia



Bombyx Tau



B. Atlas



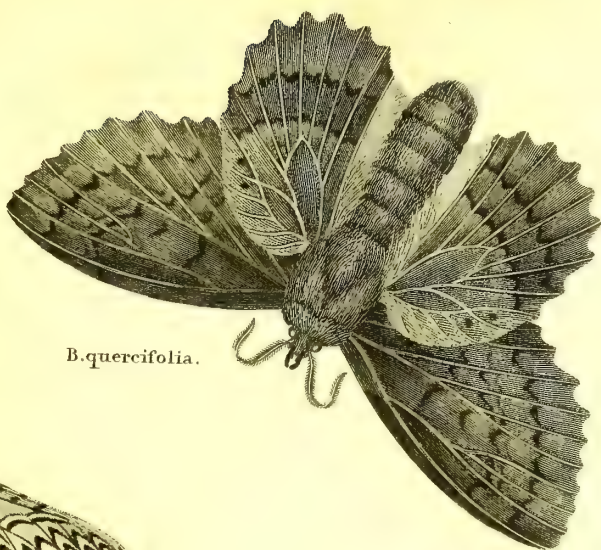
B. Luna





ENTOMOLOGY.  
Order Lepidoptera. Genus Bombyx.

PLATE I of  
*Phalena.*



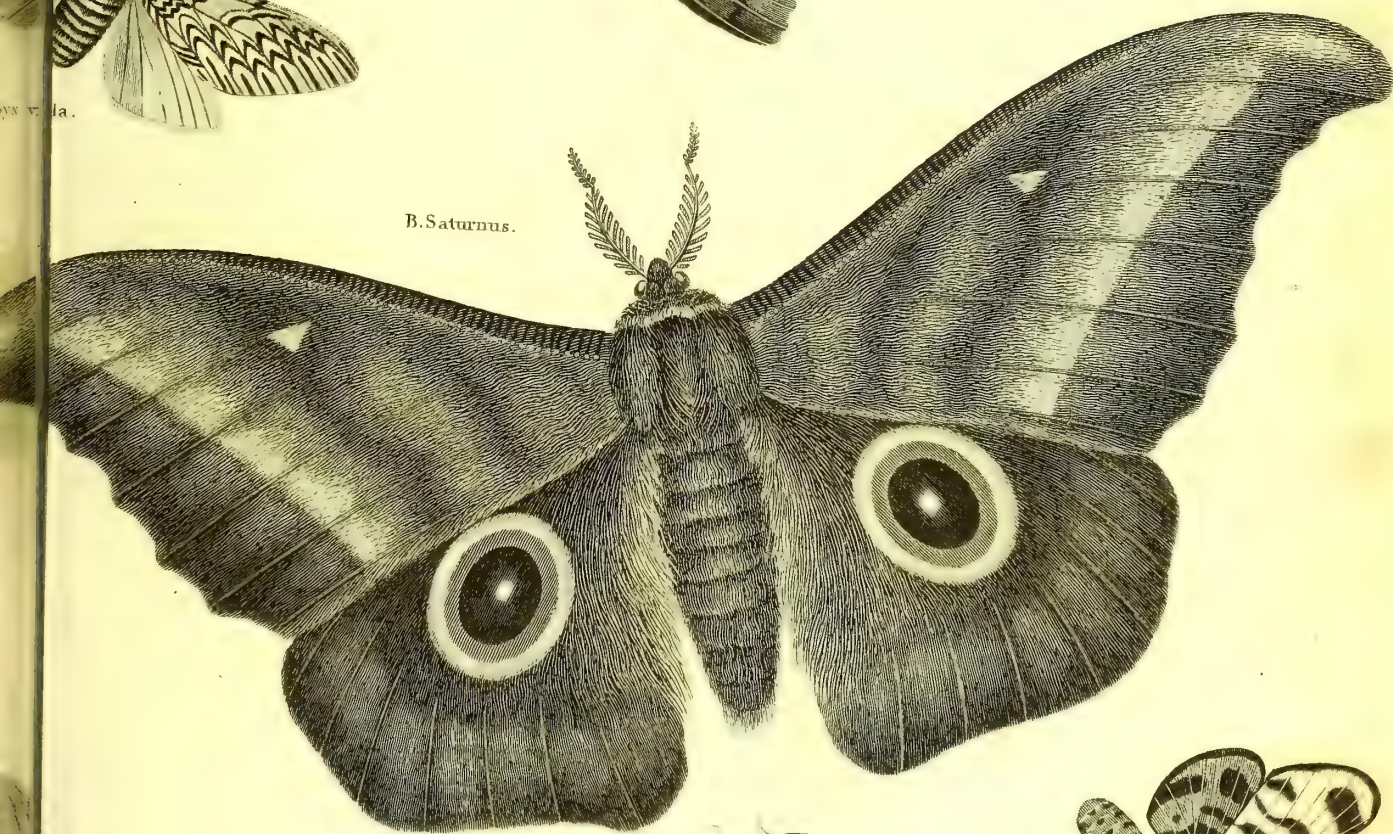
*B. quercifolia.*



*B. versicolora.*



*B. quercifolia.*



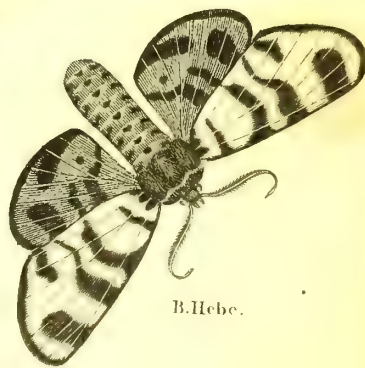
*B. Saturnus.*



*B. quercifolia.*



*B. Potatoria.*



*B. Hebe.*



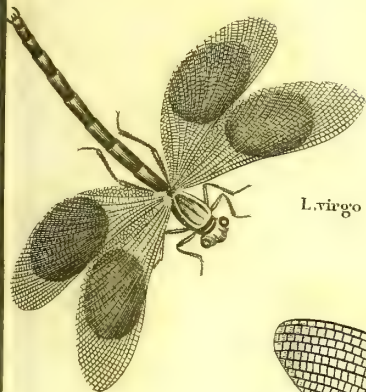


# ENTOMOLOGY.

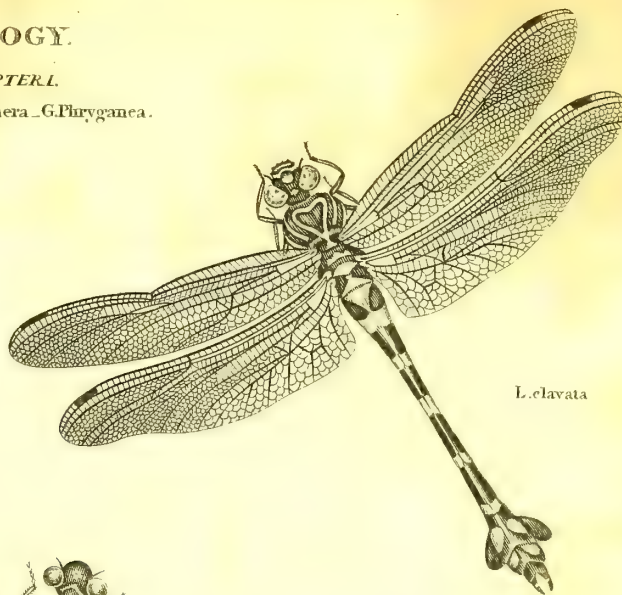
ORDER NEUROPTERÆ.

GENUS Libellula . G. Ephemera . G. Phryganea .

PLATE 1  
of Order X.



*L. virgo*



*L. clavata*



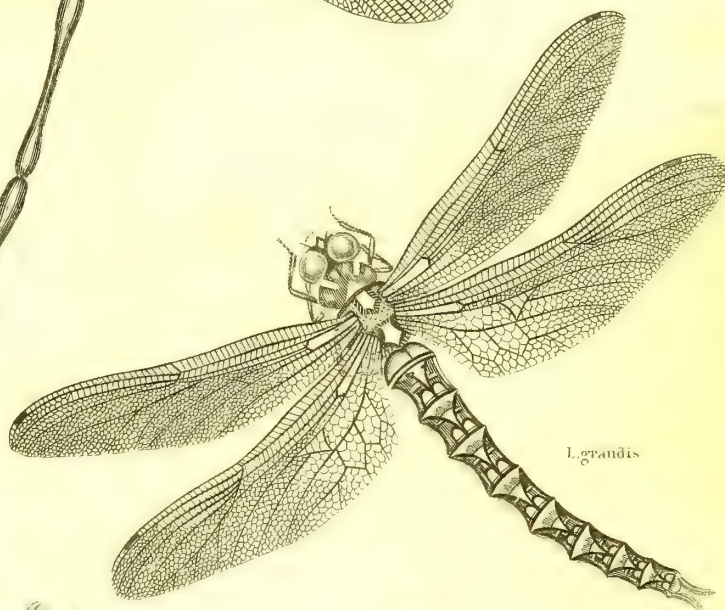
*Libellula linearis*



*indica*



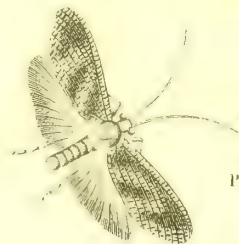
*vulgaris*



*L. grandis*



*L. pueri*



*Phryganea varia*





# ENTOMOLOGY.

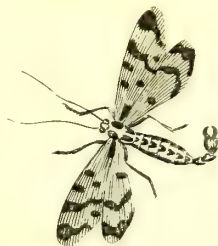
## ORDER NEUROPTERA.

GENUS Ascalphus Hemerobius Myrmeleon Panorpa Raphidia.

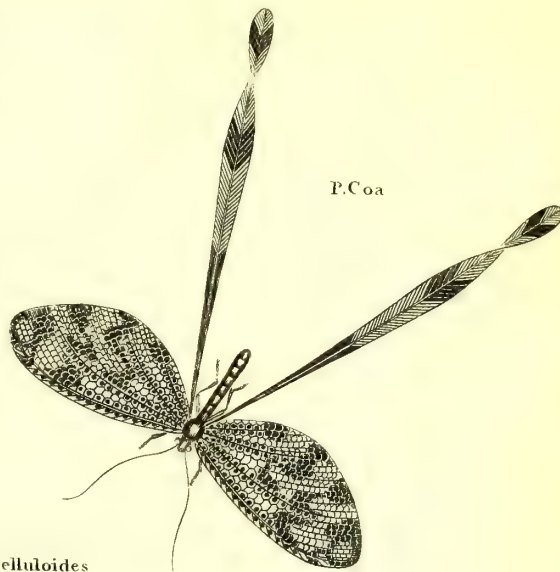
PLATE II  
of Order N.



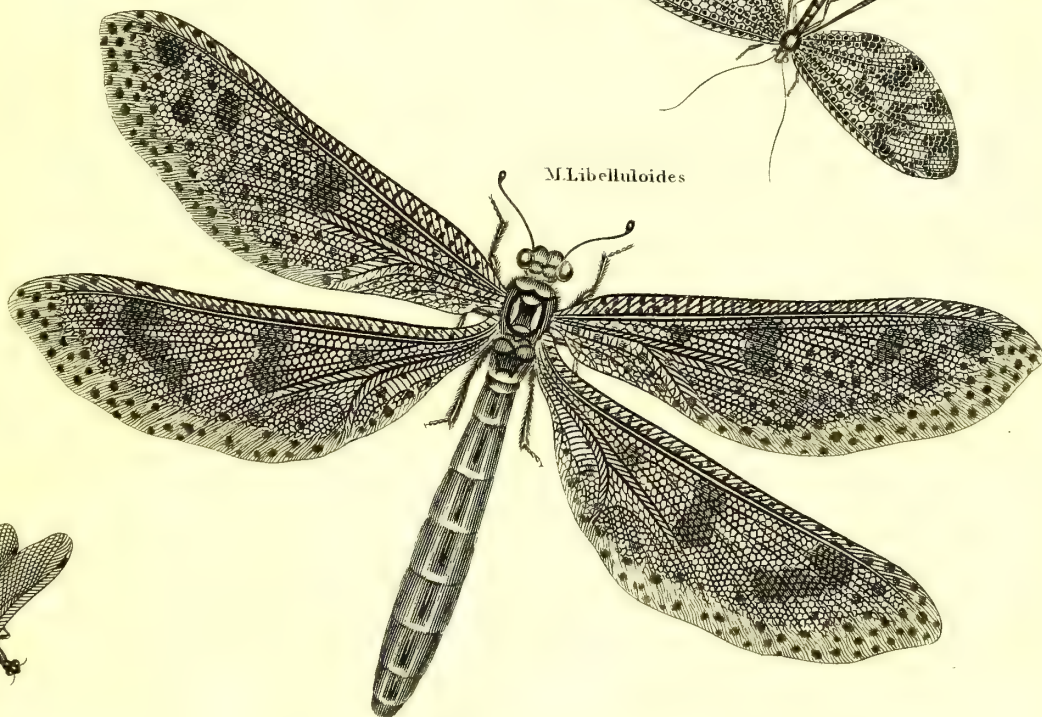
Americanus



P. Communis



P. Coa



M. Libelluloides



H. Chrysops

R. Ophiopsis



P. Communis



A. Barbarus





Genus *CYNIPS* - *G. TENTHREDO*.

*G. SIREX*.

*G. ICHNEUMON* - *G. SPHEX*.



- 6. *S. juvenis*
- 7. *S. lobata*
- 8. *I. flavicornis*
- 9. *I. persuatorius*
- + magnified





# ENTOMOLOGY.

Order Hymenoptera.

PLATE III

GENUS *AMMOPHILA* - *G. SCOLLA* - *G. THYNNUS* - *G. LEUCOPSIS* - *G. TIPHLA*  
*G. CHALCIS* - *G. CHRYSIS*.







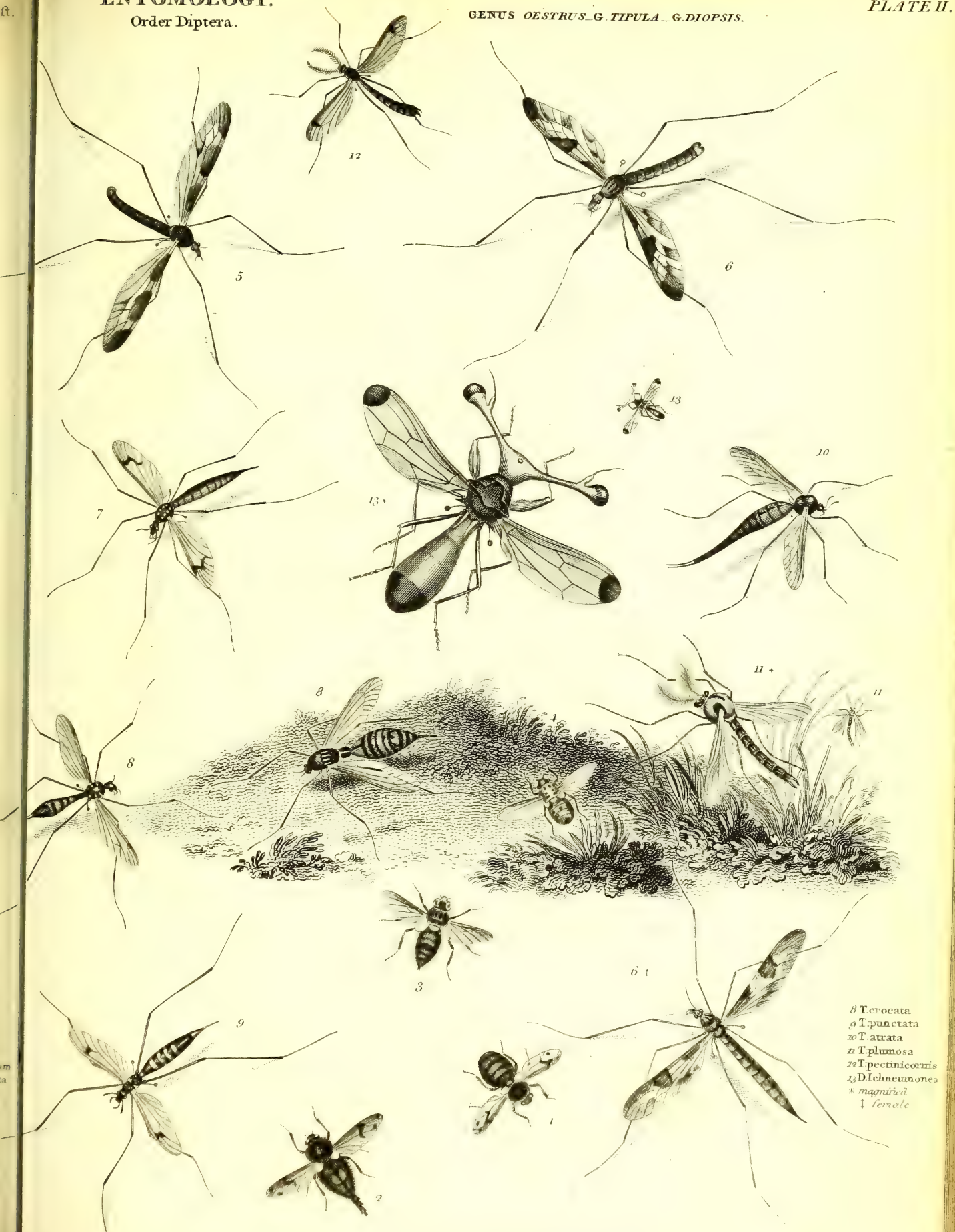


1. *Vespa*  
 2. *Vespa*  
 3. *Vespa*  
 4. *Vespa*  
 5. *Apis*  
 6. *Formica*  
 7. *Apis*  
 8. *Formica*  
 9. *Formica*  
 10. *Formica*  
 11. *Formica*  
 12. *Formica*





ft.



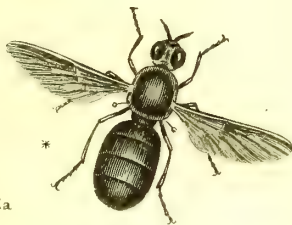
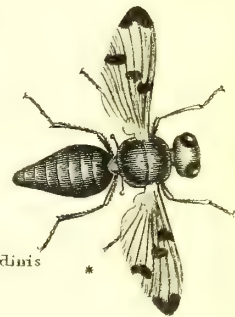




# ENTOMOLOGY.

Order Diptera.  
GENUS *MUSCIA*.

PLATE III





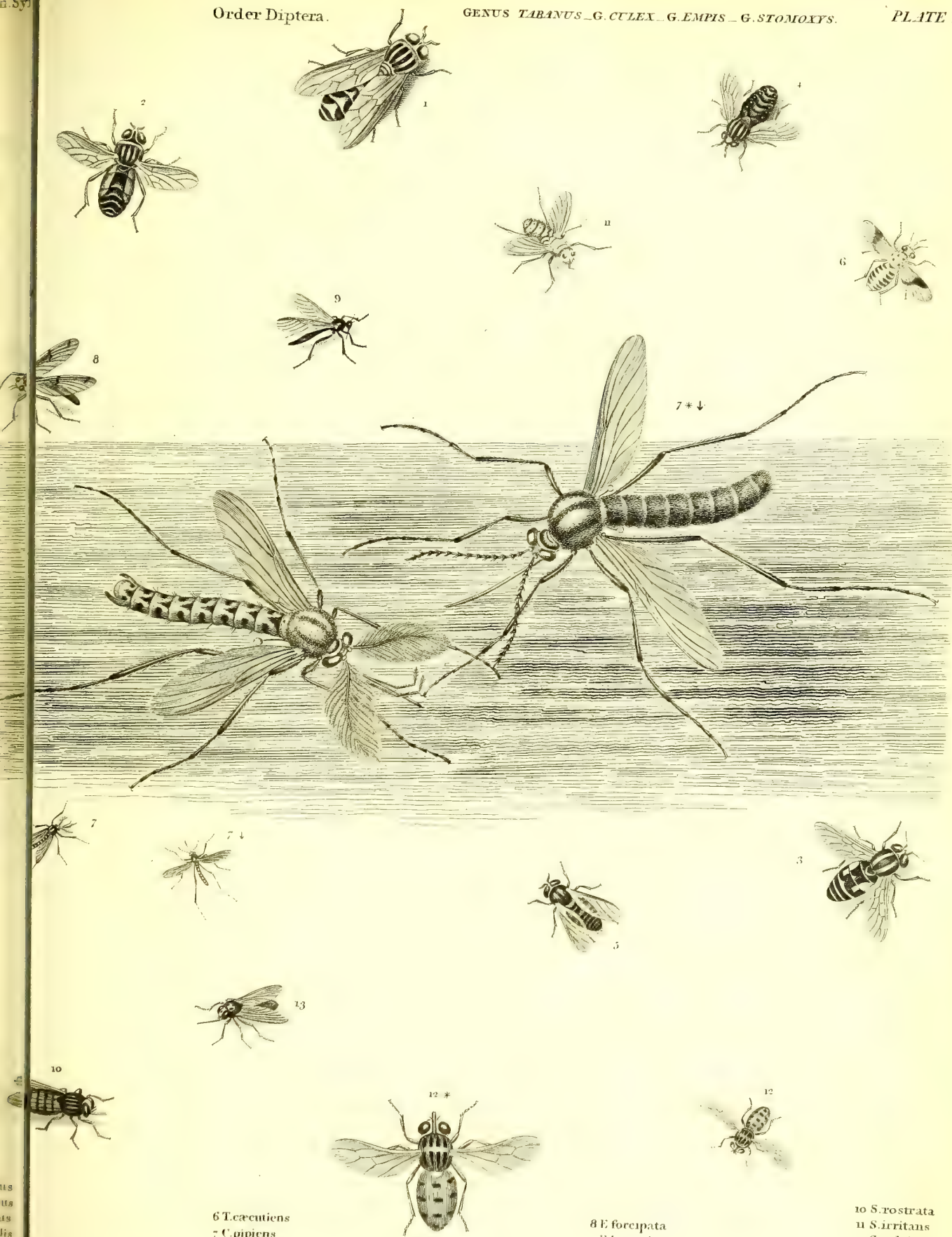


# ENTOMOLOGY.

Order Diptera.

GENUS *TABANUS* - *G. CULEX* - *G. EMPIS* - *G. STOMOXYS*.

PLATE IV.



6 *T. caecutiens*  
7 *C. pipiens*

8 *E. forcipata*  
9 *E. borealis*

10 *S. rostrata*  
11 *S. irritans*  
12 *S. calcitrans*  
13 *S. pungens*  
\* magnified ↓ female



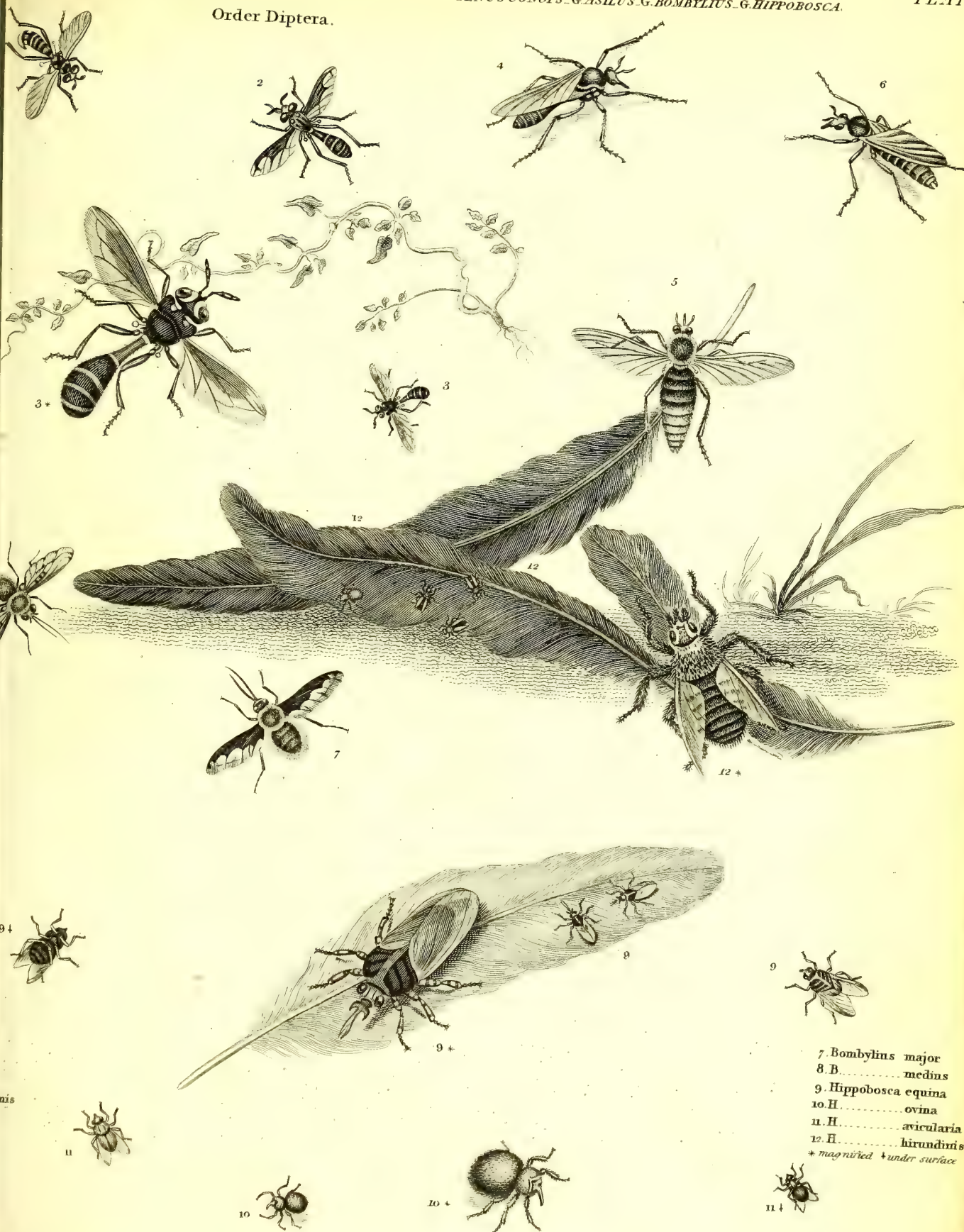


# ENTOMOLOGY.

Order Diptera.

GENUS *CONOPS*. *G. ASILUS*. *G. BOMBYLIUS*. *G. HIPPOBOSCA*.

PLATE I



- 7. *Bombylius major*
- 8. *B. medius*
- 9. *Hippobosca equina*
- 10. *H. ovina*
- 11. *H. avicularia*
- 12. *H. hirundinis*
- \* magnified † under surface





# ENTOMOLOGY.

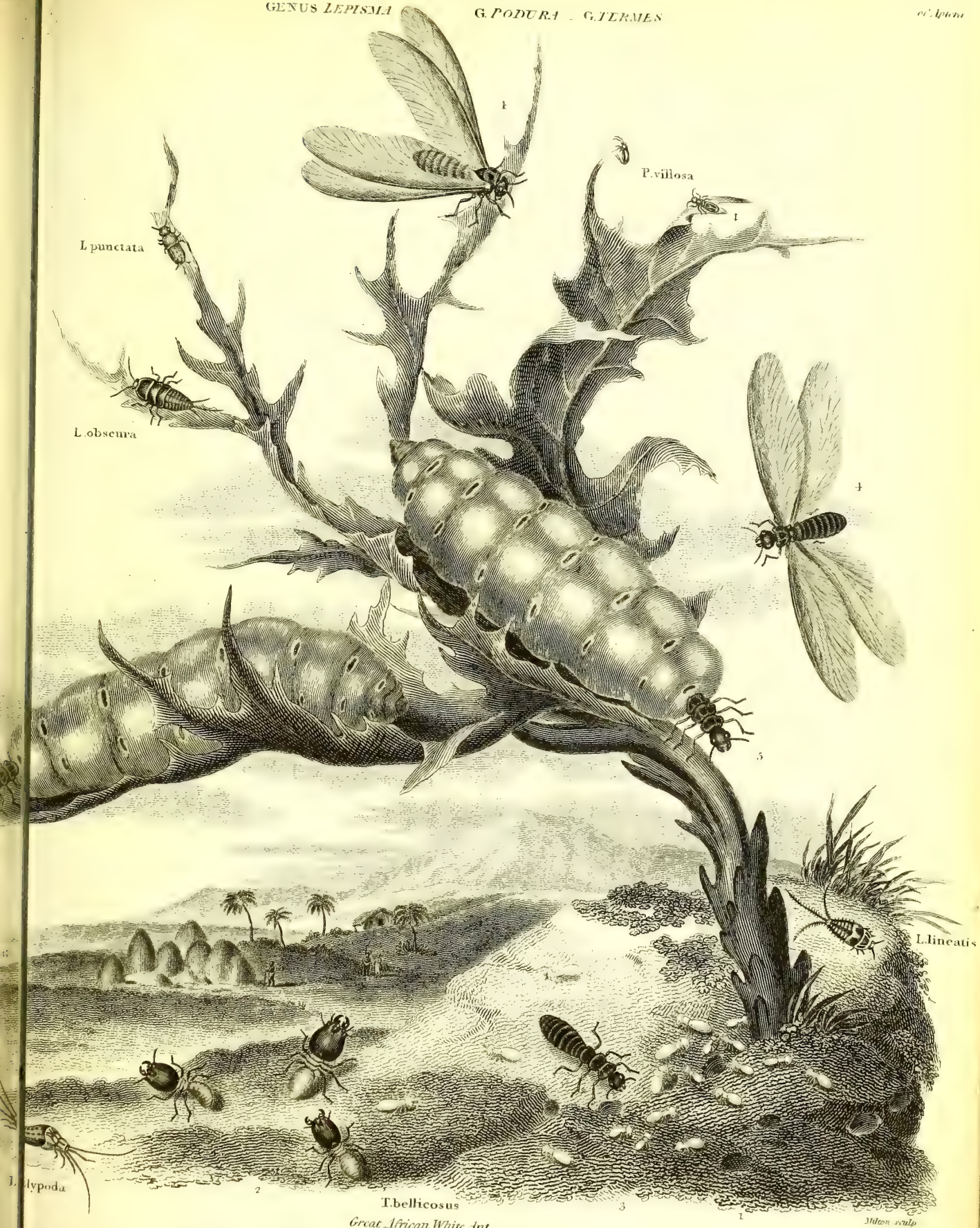
## Order Aptera.

GENUS *LEPISMA*

G. *PODURA* .. G. *TERMES*

PLATE V

oi, *kyrioi*



1. Labourers - 2. Soldiers - 3. King - 4. Male - 5. Pregnant Female or Queen - 6. Nests.

Published as the Act directs, Feb. 1. 1819, by Longman Hurst, Rices, Orme & Brown, Paternoster Row.

‡ *under surface*





# ENTOMOLOGY.

Order Aptera.

PLATE IV

GENUS *PEDICULUS* — *G. PULEX* — *G. ACARUS* — *G. FROMBIDIUM* — *G. HYDRACHNA*.  
(Louse) (Flea)



5 *P. picæ*  
MAGPIE L.  
6 *P. griseus*  
CRANE L.

7 *P. columbae*  
PIGEON L.

8 *P. phyllis*  
FLOWER L.  
9 *P. apis*  
BEE L.

10 *P. irritans*  
FLEA  
11 *A. reduvius*  
12 *F. aquaticum*  
13 *F. abstergens*  
14 *H. geographica*  
15 *H. abstergens*  
\* magnified  
† female



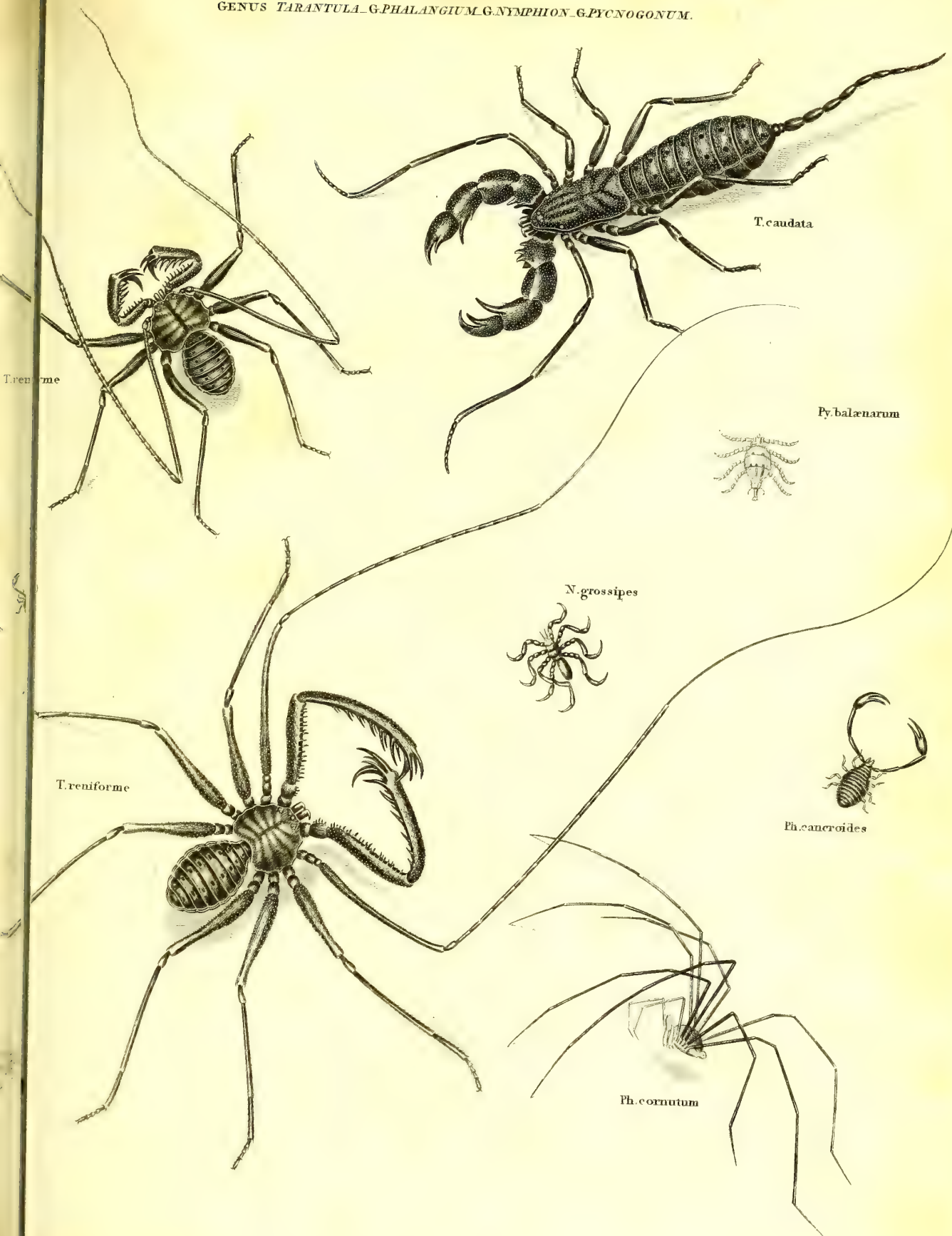


# ENTOMOLOGY.

Order Aptera.

PLATE I.

GENUS *TARANTULA* *G.PHALANGIUM* *G.NYMPHION* *G.PYCNOGONUM*.







# ENTOMOLOGY.

Order Aptera.  
GENUS ARANEA.  
(Spider)

PLATE II.



Position of the Eyes in different Spiders.

2	3	4	5	6	7	8	9
A. Globosa.	A. Horrida.	A. Argentea.	A. Fasciata.	A. Angulata.	A. Tarantula.	A. Avicularia.	A. Maculata.







# ENTOMOLOGY.

Order Aptera.  
GENUS SCORPIO.

PLATE III  
of Aptera.



1. *Scorpio afer*. 5. *S. linearis*. 3. *S. Europæus*.  
2. under Surface. 4. under Surface.

Published as the Act directs July 1<sup>st</sup> 1827, by Longman Hurst, Rees & Orme Paternoster Row.

Museo. 25.





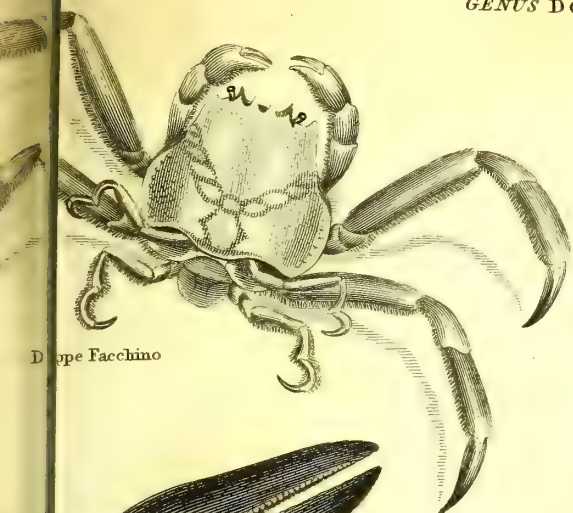


CRUSTACEA.

Order CANCER.

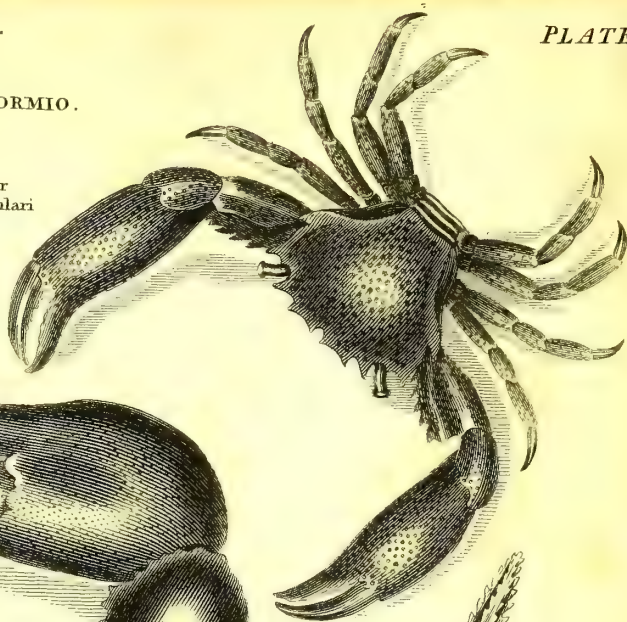
GENUS DORIPPE GENUS DORMIO.

PLATE I.

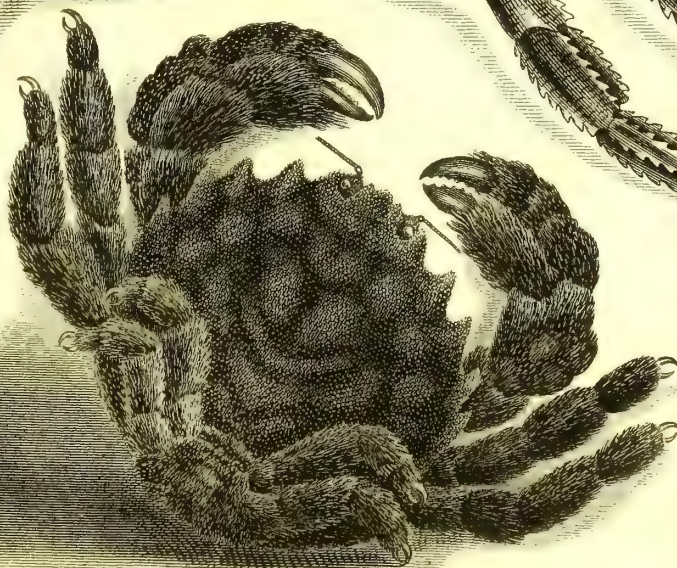


Dorippe facchino

Cancer  
faciulari



Cancer ruricola



Dormio  
artificiosa







# CRUSTACEA.

Order CANCER.

GENUS *PORTUNUS*.  
Section *Orithyia*.  
Section *Matuta*.

PLATE II

*Portunus*  
*Menestho*

*Portunus*  
*Forceps*

*Orithyia*  
*Mammillaris*

*Matuta*  
*Lunaris*





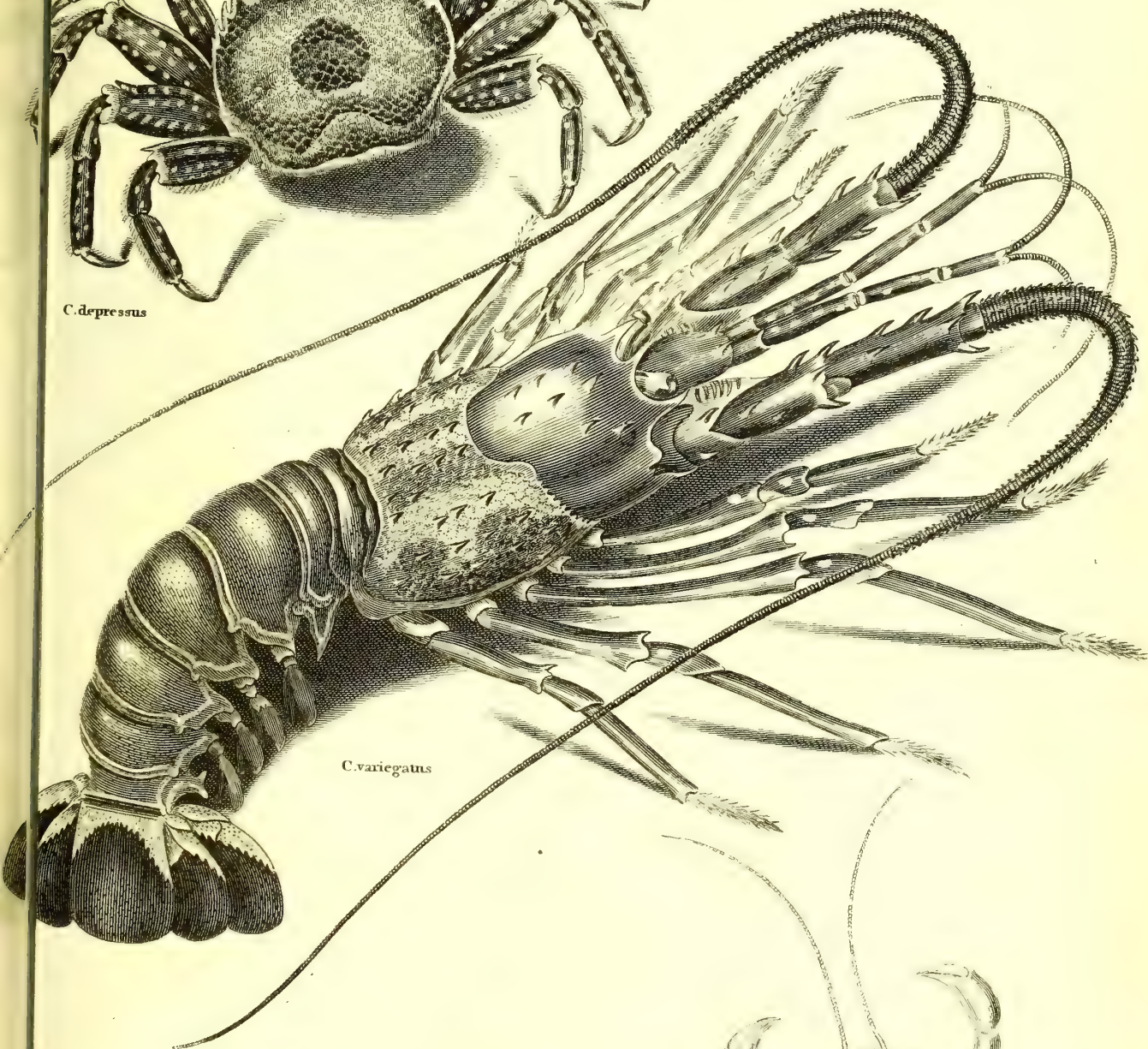
CRUSTACEA.

GENUS CANCER.

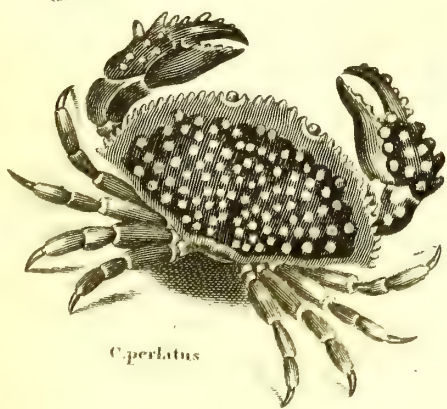
PLATE III. V.



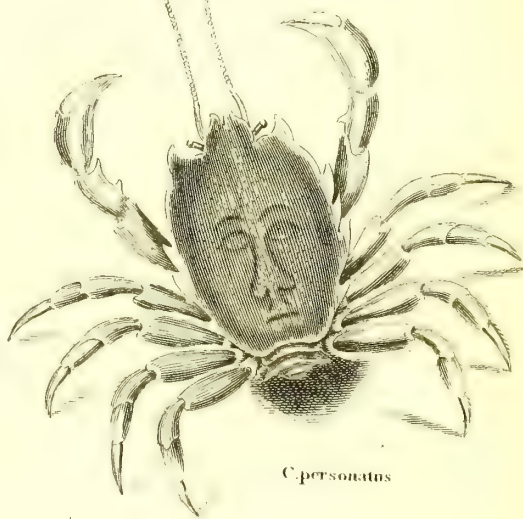
*C. depressus*



*C. variegatus*



*C. perlatus*



*C. personatus*





# CRUSTACEA.

Genus CANCER.

PLATE VII.  
Entomology



- 1 Cancer Ursus minor
- 2 C. digitalis
- 3 C. strigatus
- 4 C. narval
- 5 C. dubius
- 6 C. linearis
- 7 C. fluviatilis



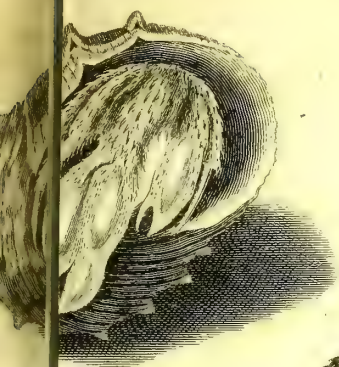


# CRUSTACEA.

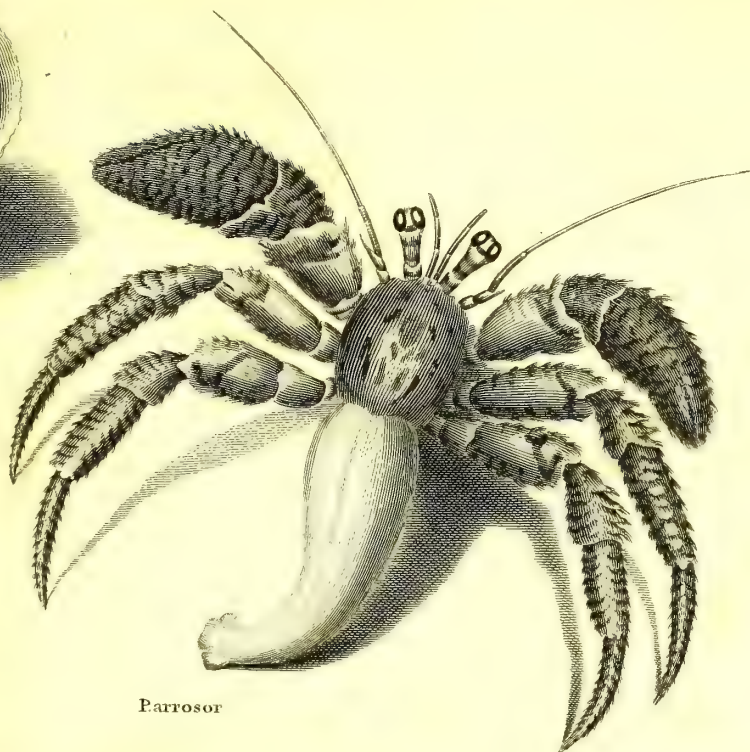
Order *CANCER*.

PLATE VI

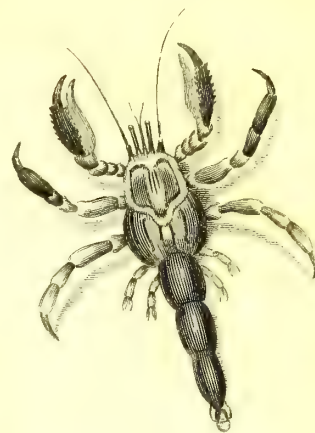
GENUS *PAGURUS* - *G. GAMMARUS* - *G. GAMMARELLUS*.



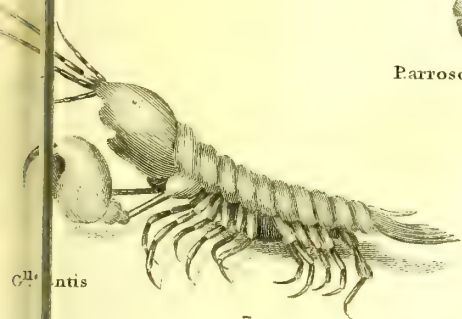
ecay 48



Pagrosor



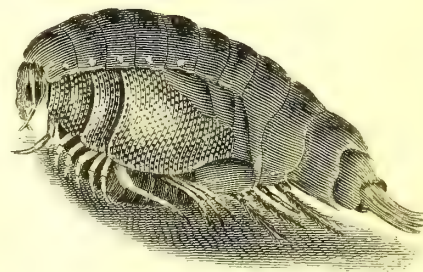
Peanaticulatus



G. antis



G. podurus

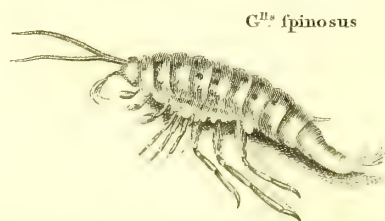


G. ampulla



nat. size

G. patudosus



G. spinosus



pub. Baster



G. linearis





# ENTOMOLOGY.

GENUS *Monoculus* - *Oniscus* - *Scolopendra* - *Julus*.

Order *APTERA*

PLATE X  
of Order A.







VERMES.

Order Intestata.

Genus ASCARIS G. ECHINORHINCHUS G. FASCIOLA G. LINGULATA.

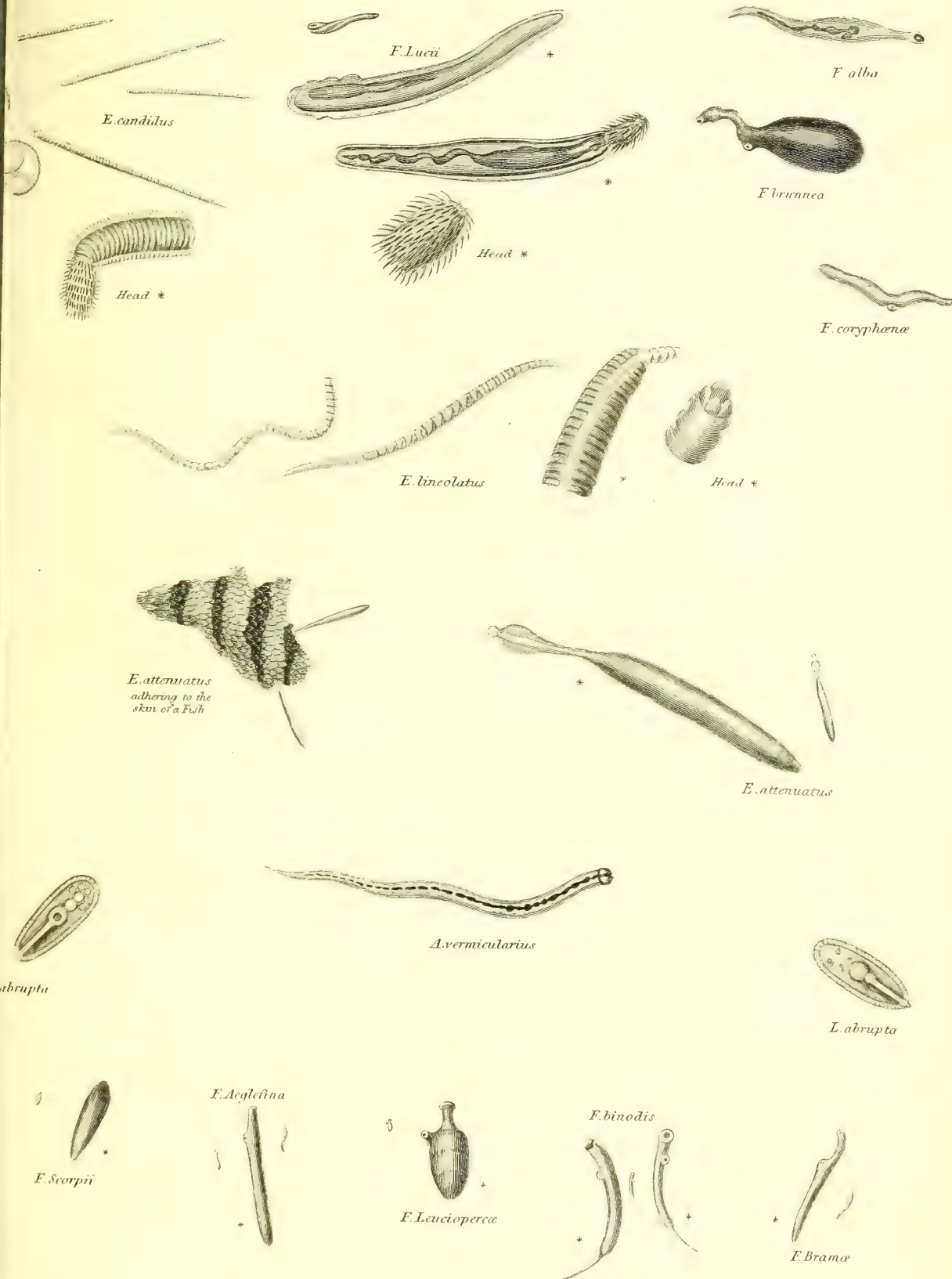
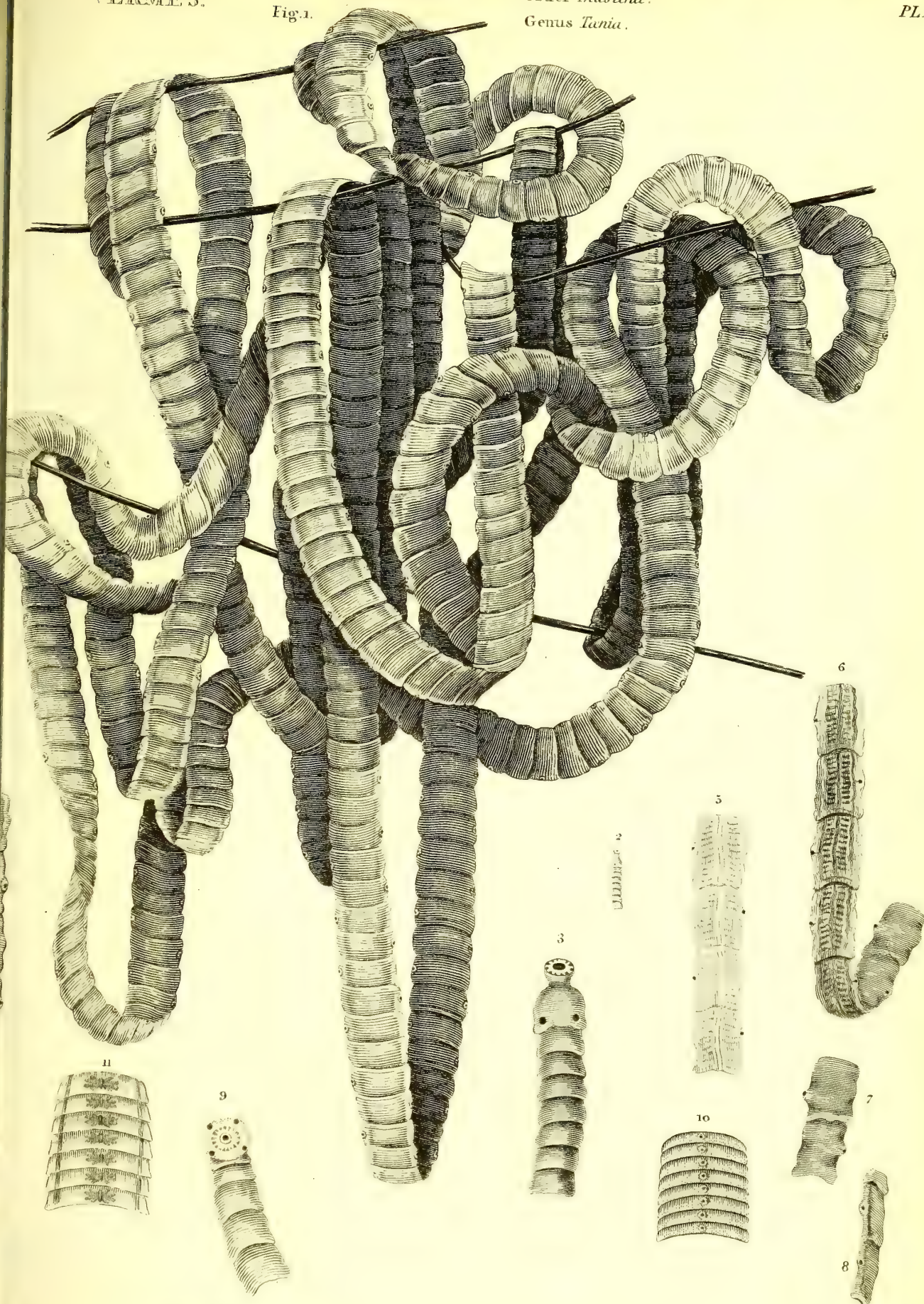




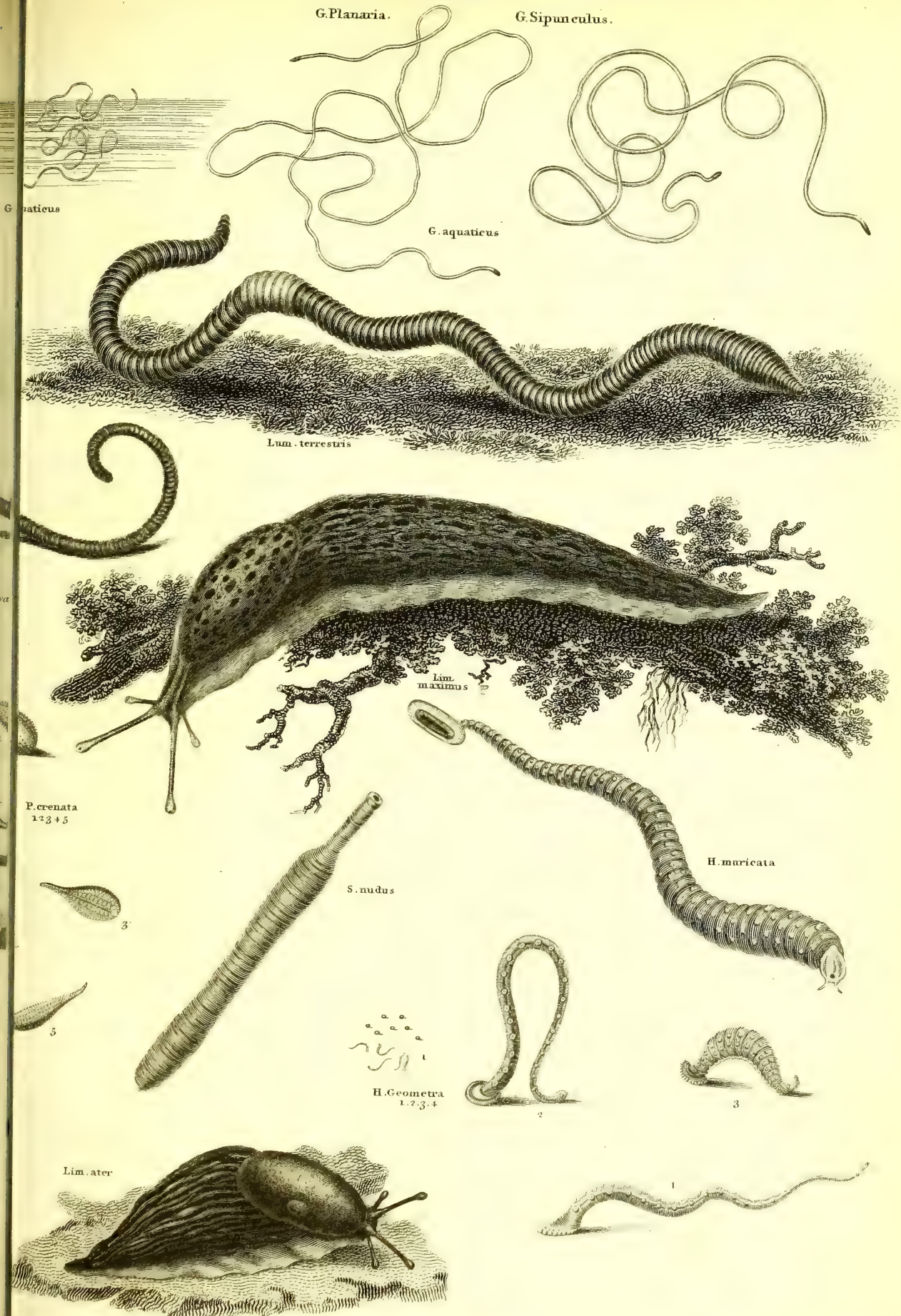


Fig. 1.















1 O typha 2 L. depilans 3 Dargo 4 D. radiata 5 D. papillosa 6 A. aculeata 7 A. squamata.

SEA HIRE 3 SEA LEMON 4 RADIATED D.

4 under surface 5 young

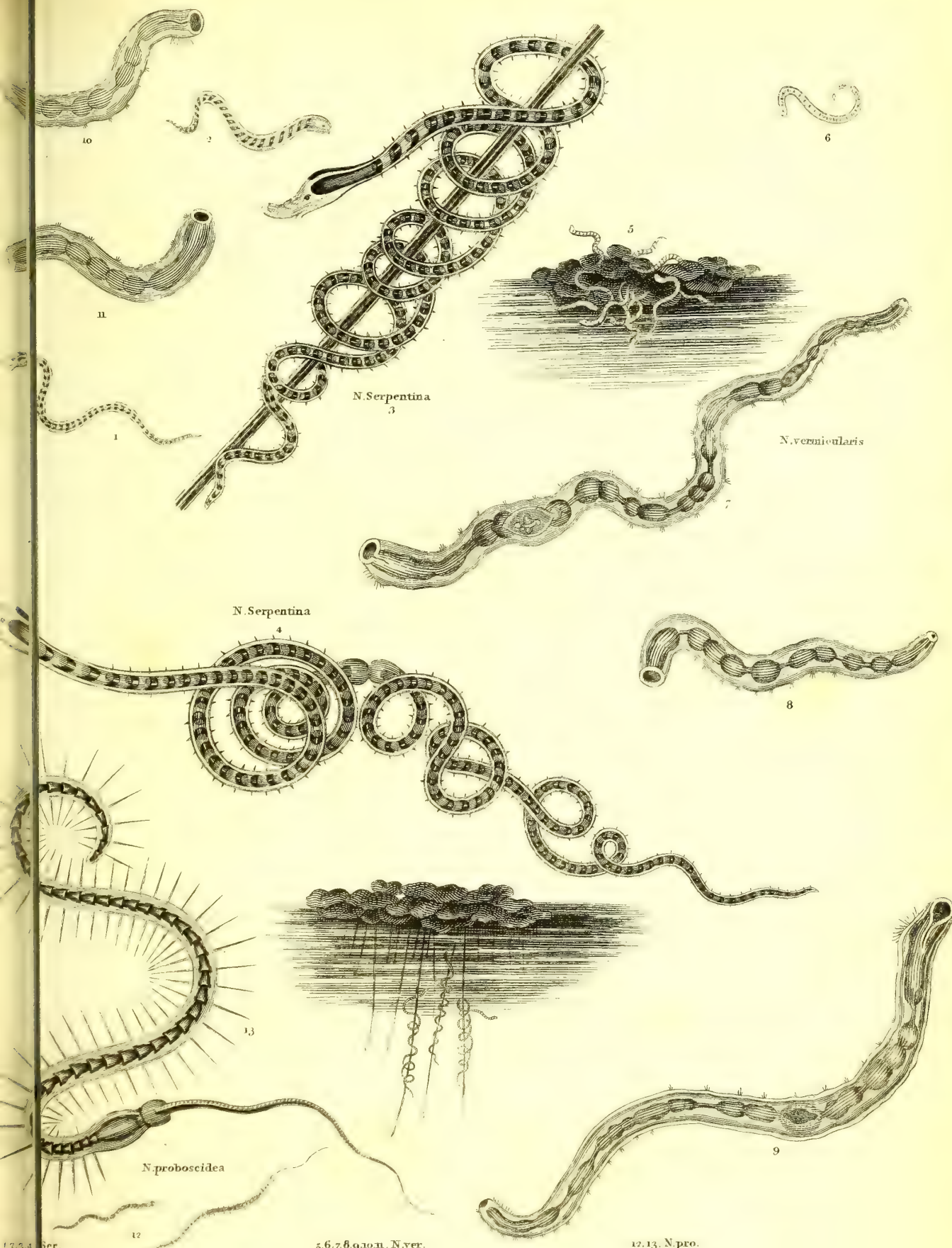
5 PAPILLOUS D 6 SEA MOUSE 7 SCILL SEA MOUSE

Published as the Act directs April 1<sup>st</sup> 1814 by Longman Hurst Rees Orme & Brown Ruernoster Row

W. B. 25







N. Serpentina  
3

N. vermicularis

N. Serpentina  
4

N. proboscidea

5 6 7 8 9 10 11. N. ver.

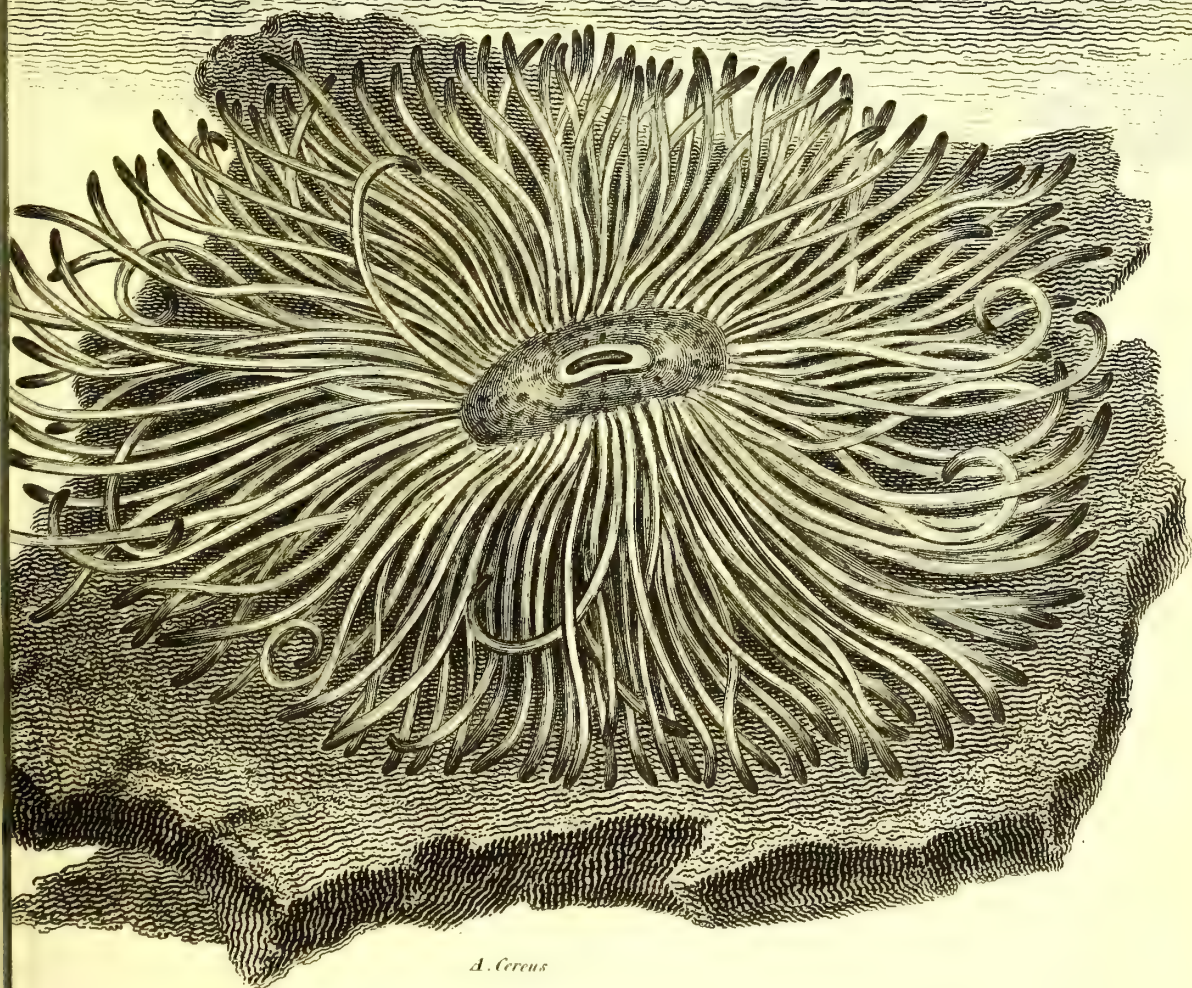
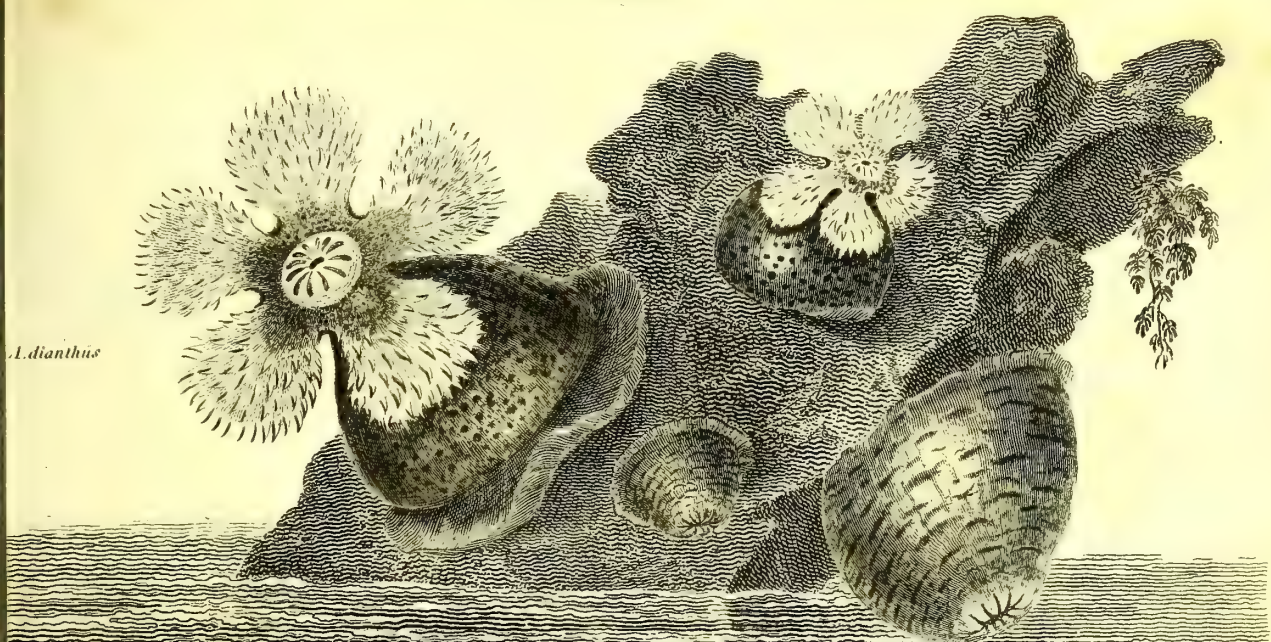
12. 13. N. pro.







*A. dianthus*



*A. Cereus*

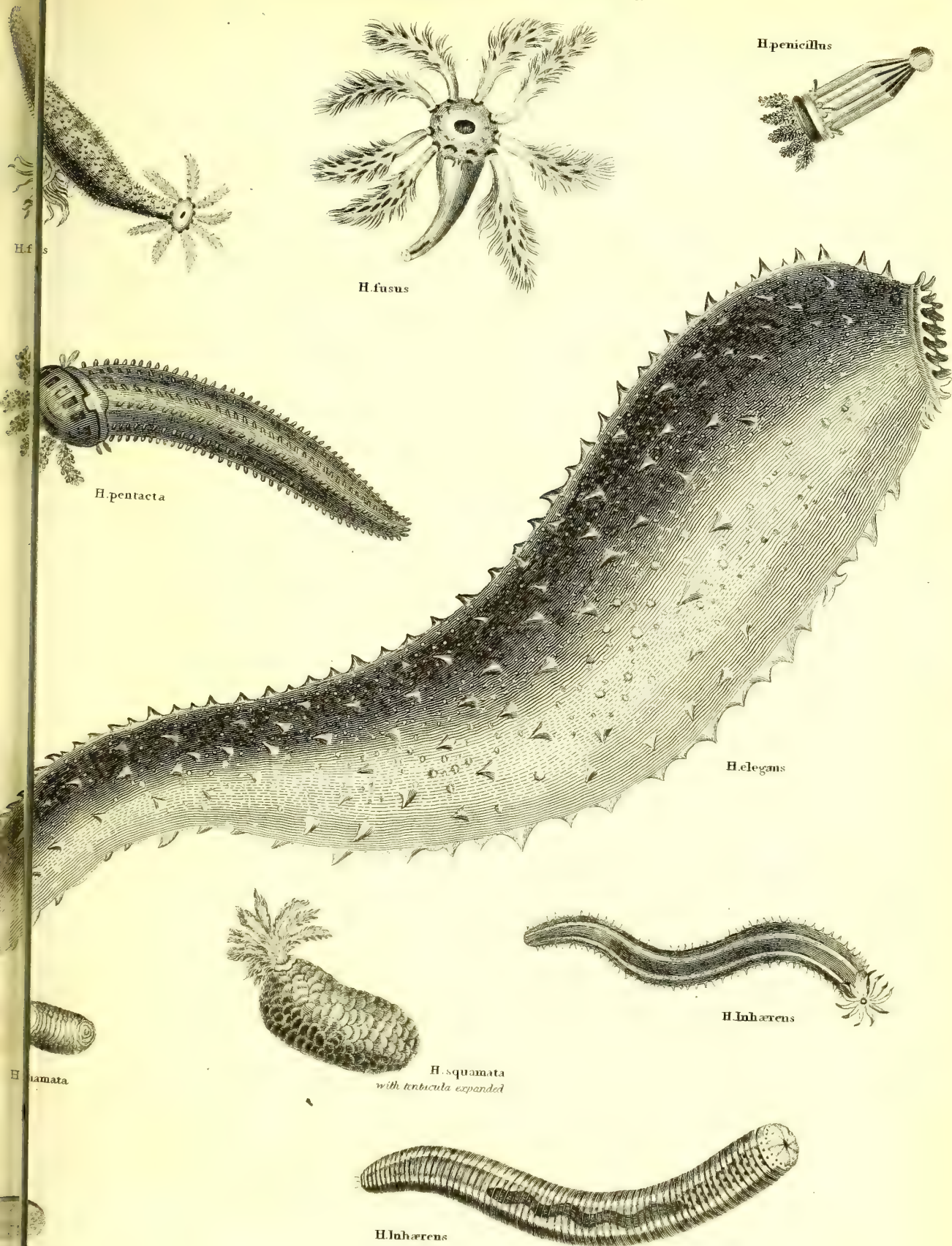




# ZOOLOGY.

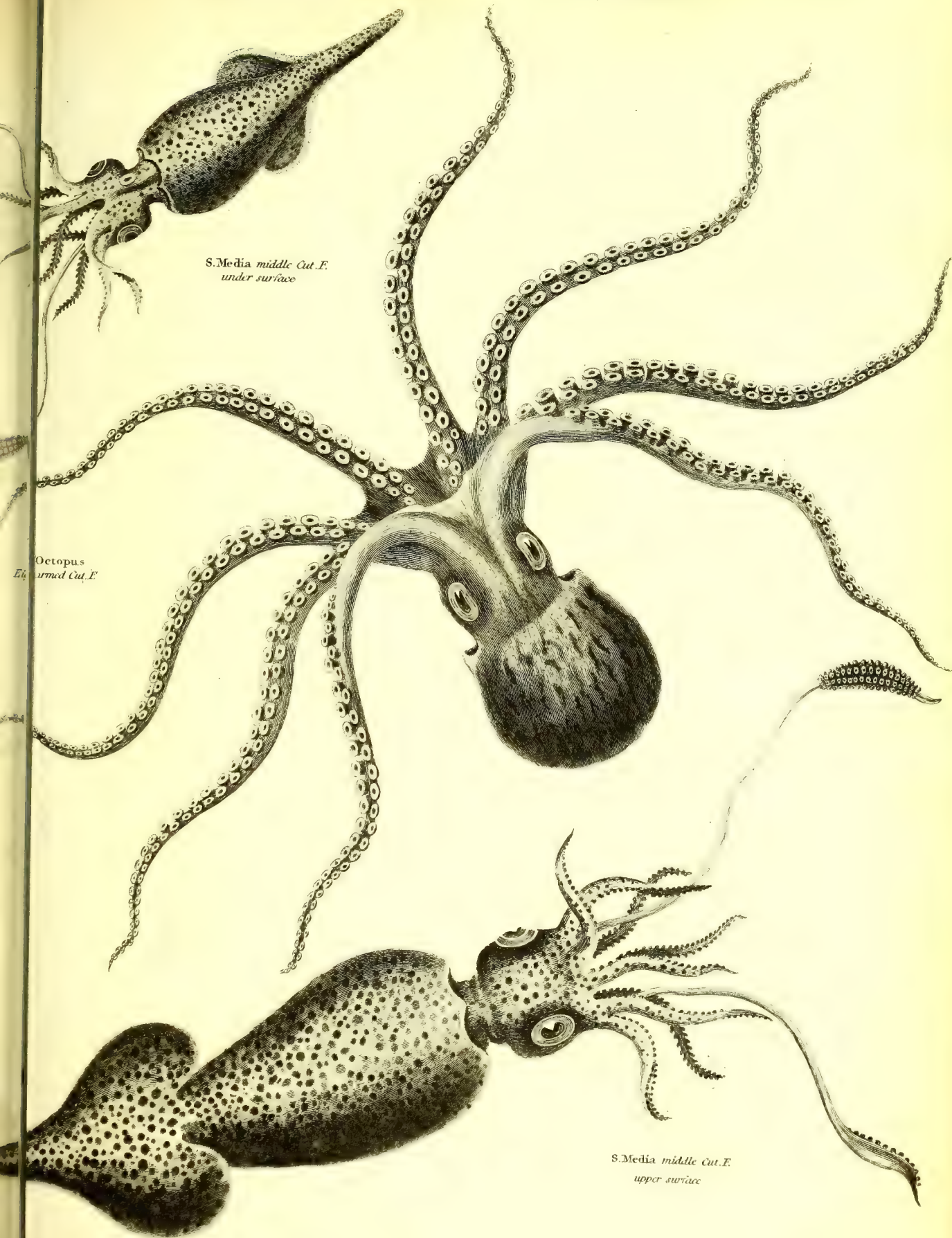
Class VERMES - Order MOLLUSCA - GENUS HOLOTHURLA.

PLATE I  
of Mollusca.











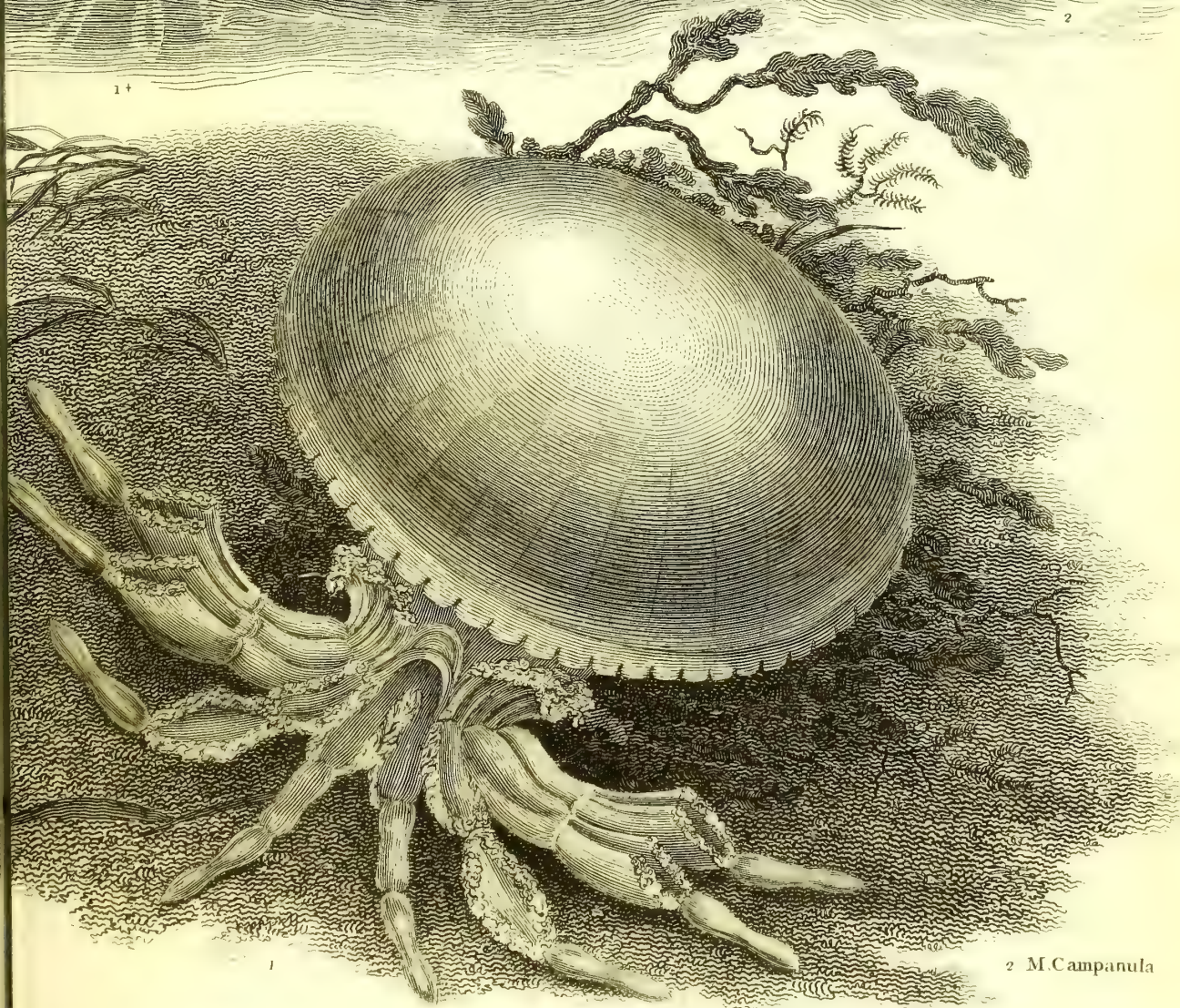




Order Mollusca—Genus Medusa.



1+

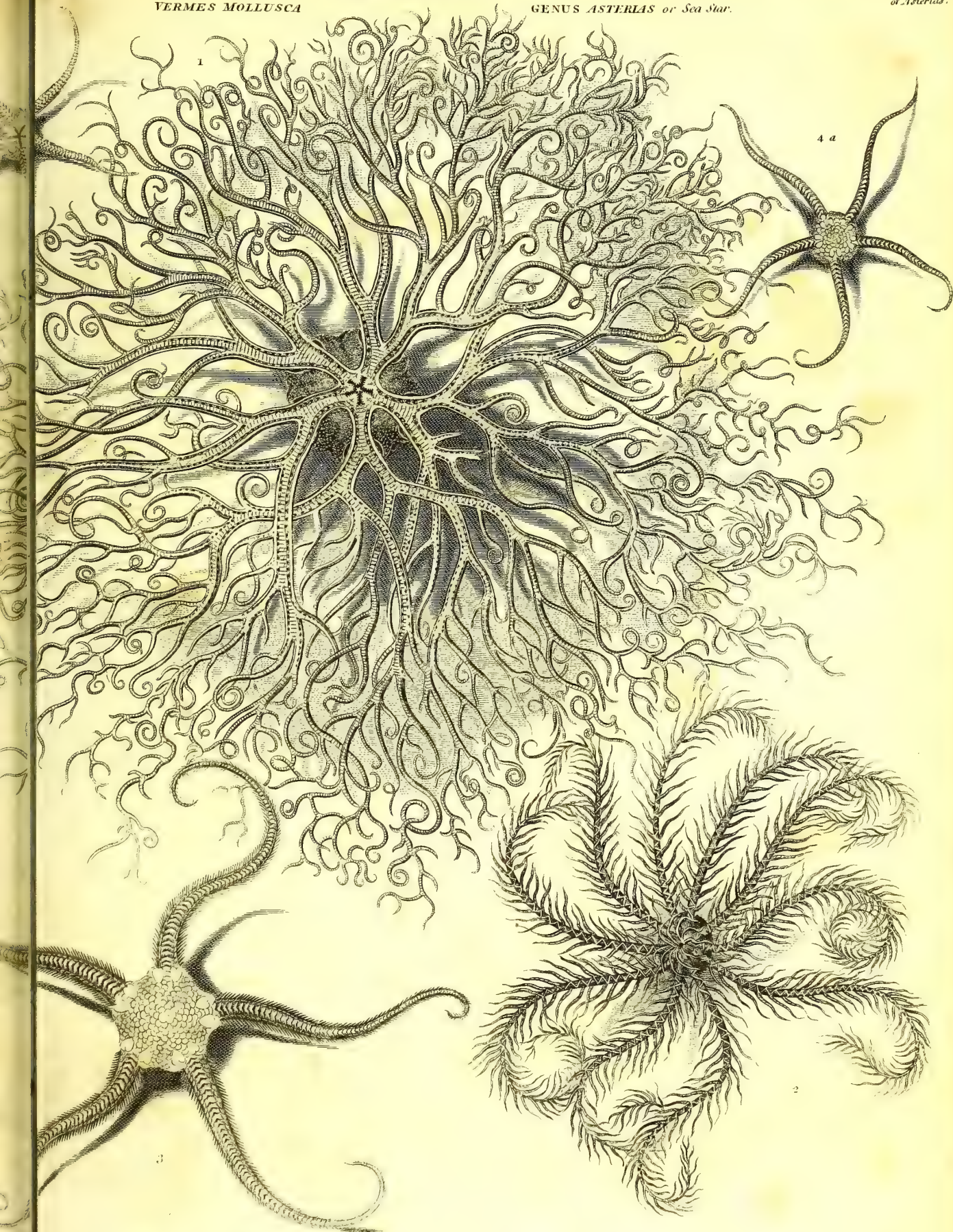


2 M. Campanula









1. A. Caput Medusa

2. A. pectinata

3. A. sphaerulata

4. A. ophiura

MEDUSAS HEAD SEA S.

PECTINATED SEA S.

BEADED SEA S.

LIZARD TAIL SEA S.

{ a upper surface  
b under " }

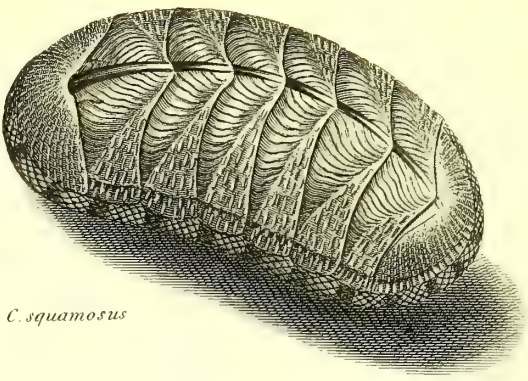
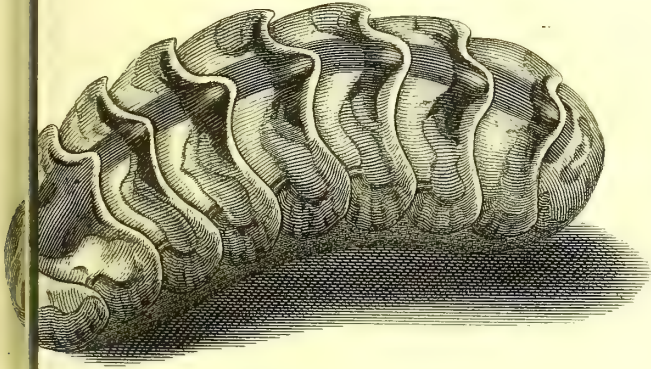






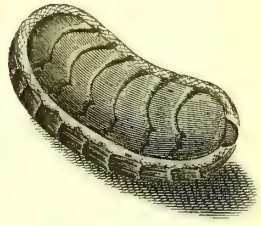
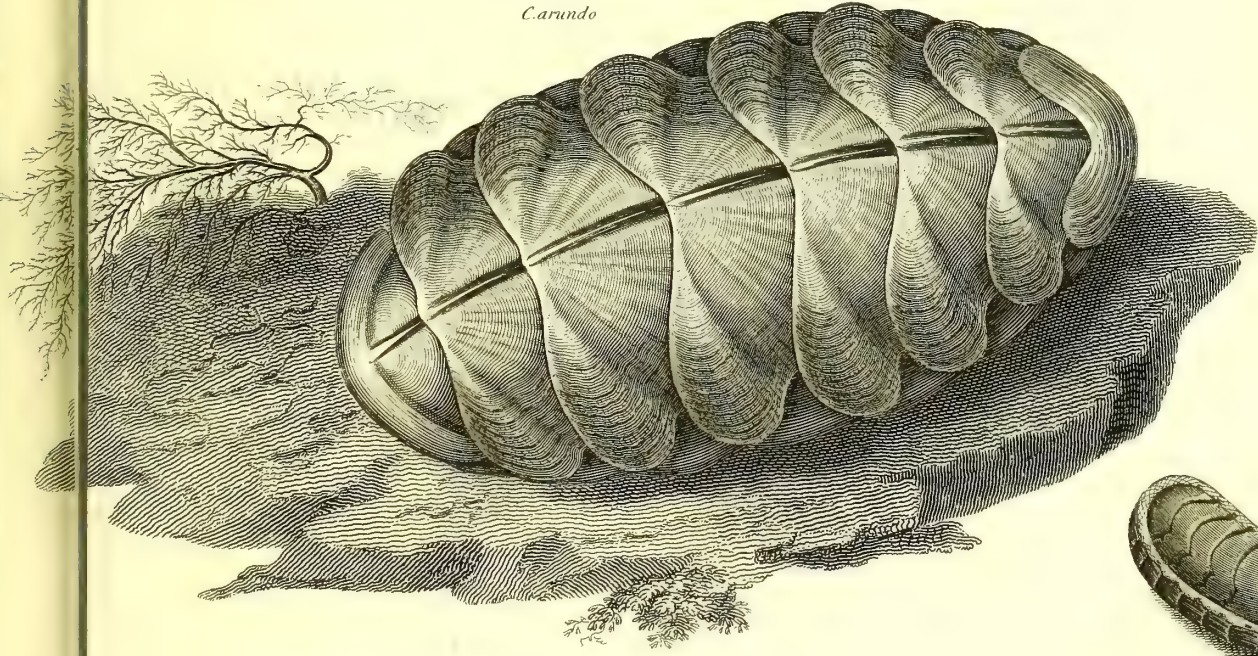
GENUS CHITON.

*C. aculeatus*



*C. squamosus*

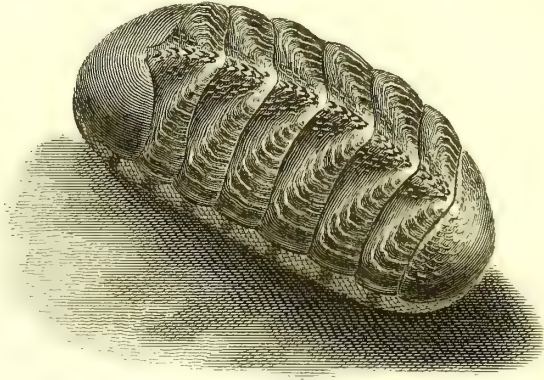
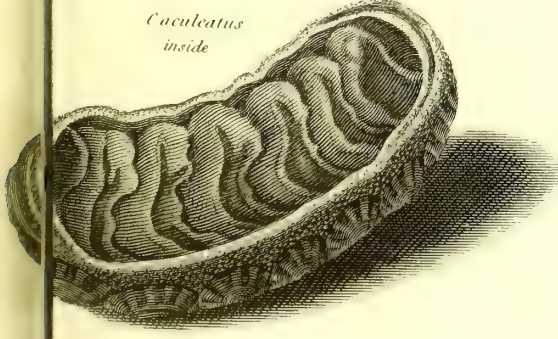
*Carundo*



*C. olivaceus*

*C. olivaceus*  
*inside*

*C. aculeatus*  
*inside*









*L. anserina*

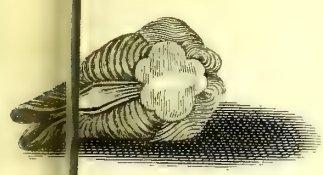


*L. anatifera*

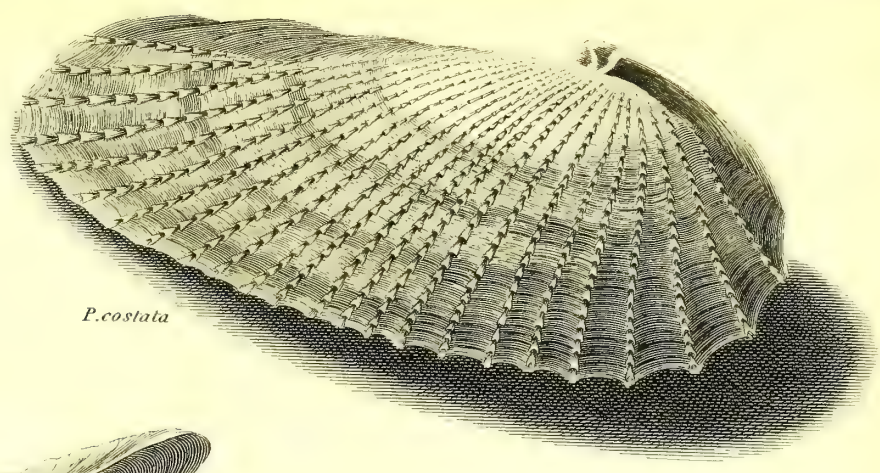
Wilson sculp.



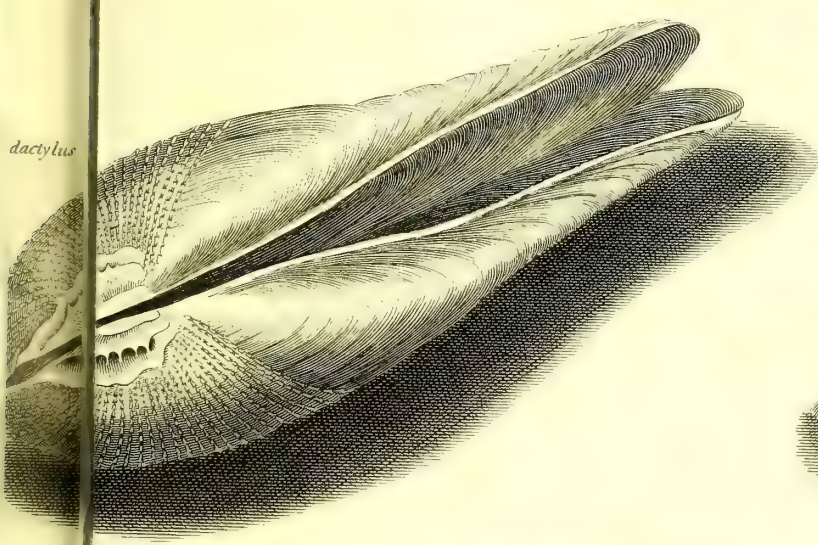




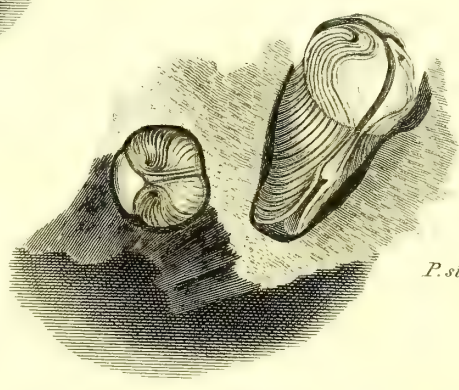
*P. striata*



*P. costata*



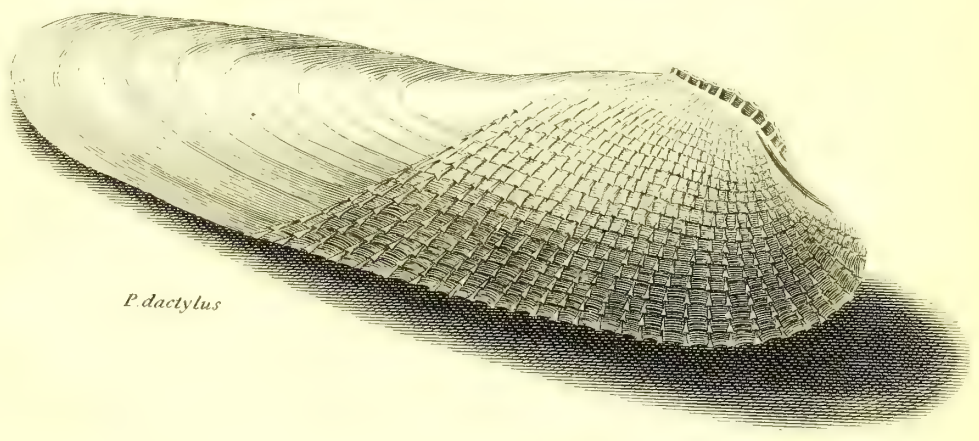
*P. dactylus*



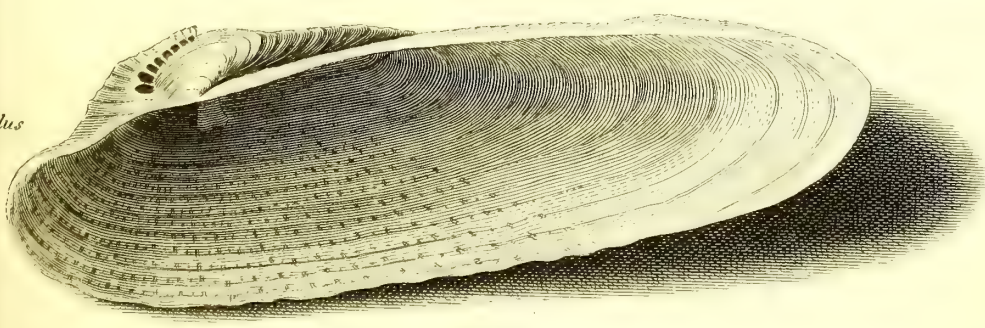
*P. striata*



*P. striata*



*P. dactylus*

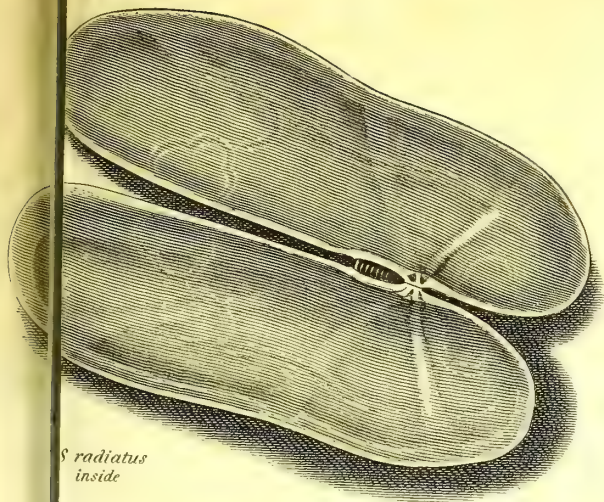


*P. dactylus*





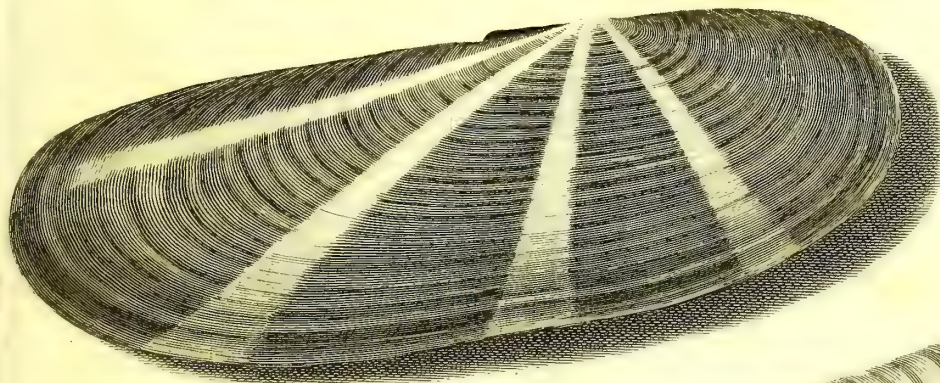




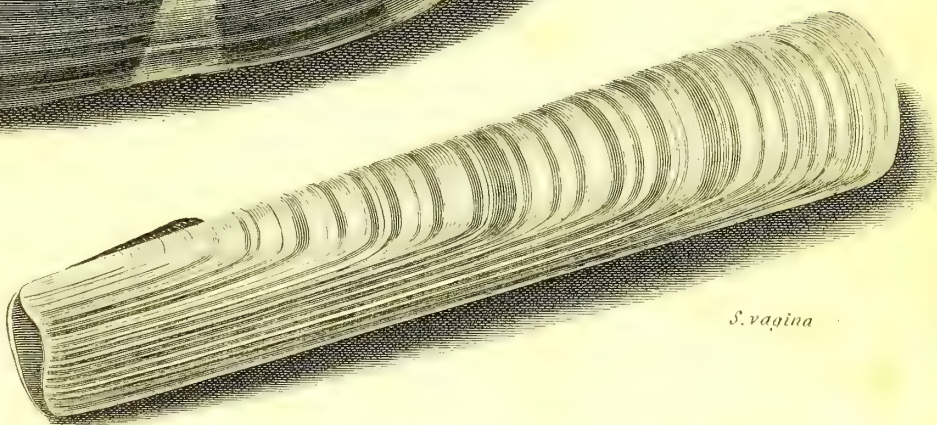
*S. radiatus*  
inside



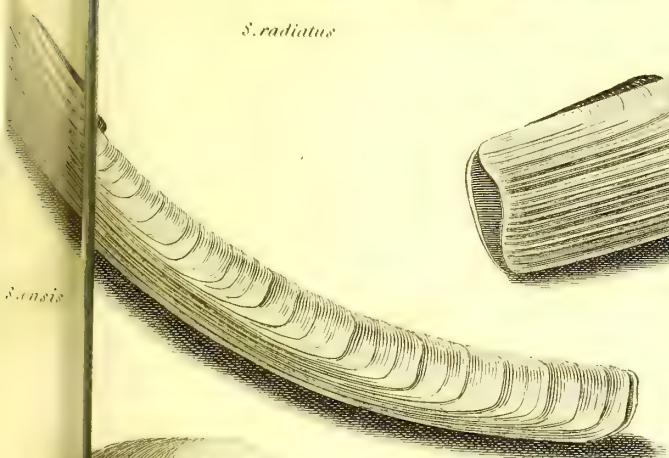
*S. strigilatus*



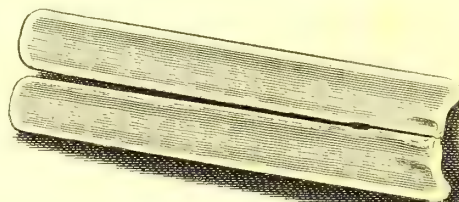
*S. radiatus*



*S. vagina*



*S. ensis*

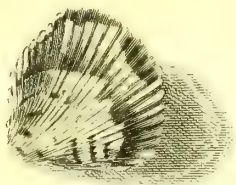


*S. vagina* young  
inside

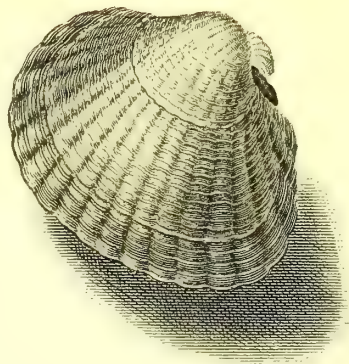




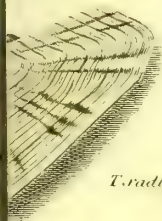




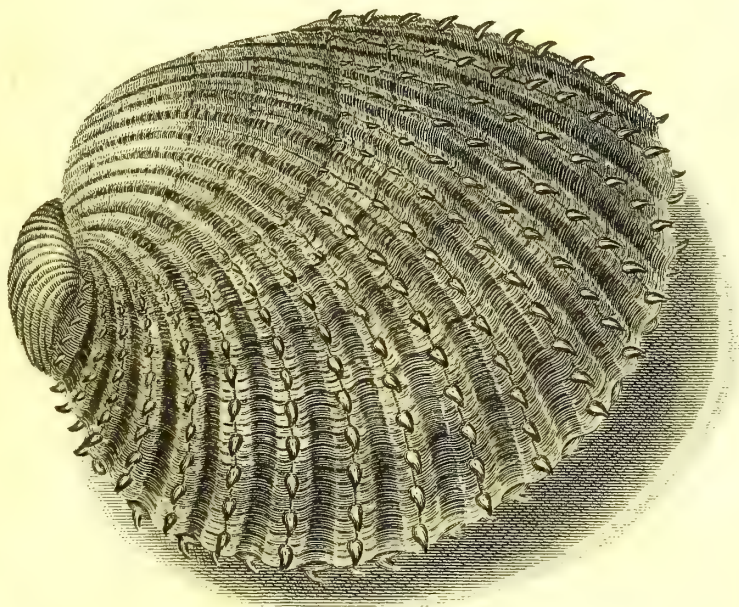
*C. medium*



*C. edule* var.



*T. radiata*



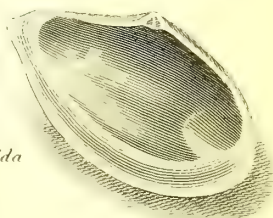
*Cardium aculeatum*



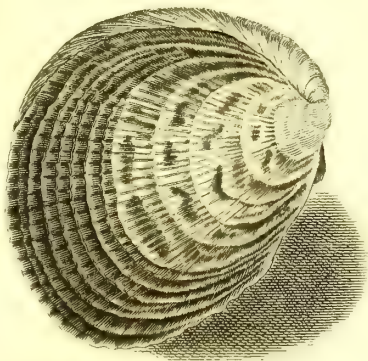
*Tellina bimaculata*



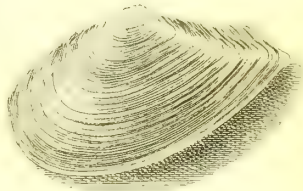
*T. squalida*  
inside.



*T. squalida*



*C. laevigatum*





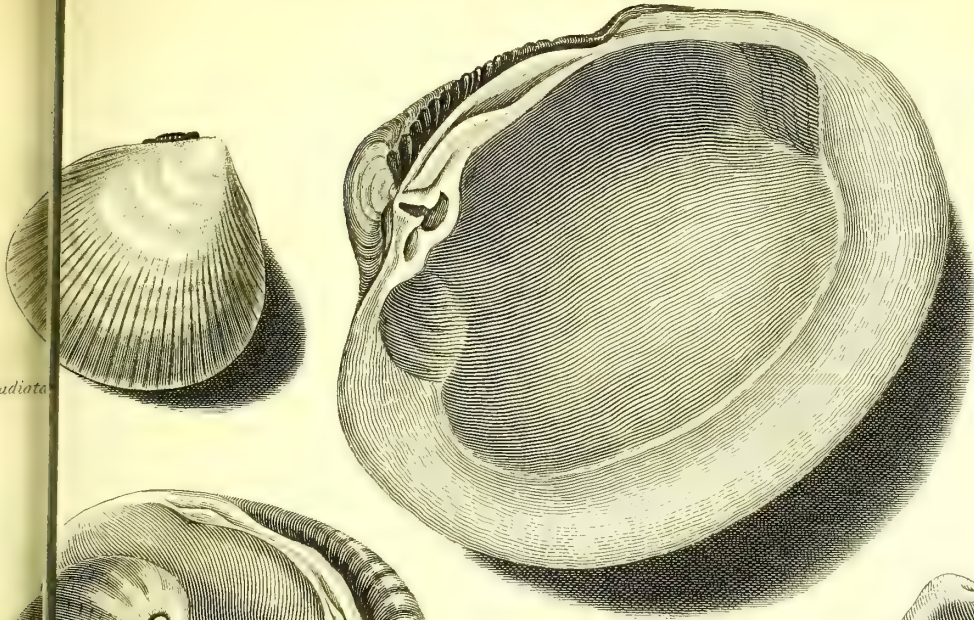




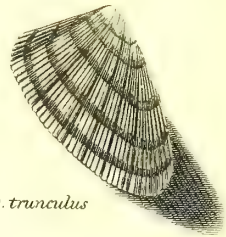
# CONCHOLOGY.

PLATE XI.

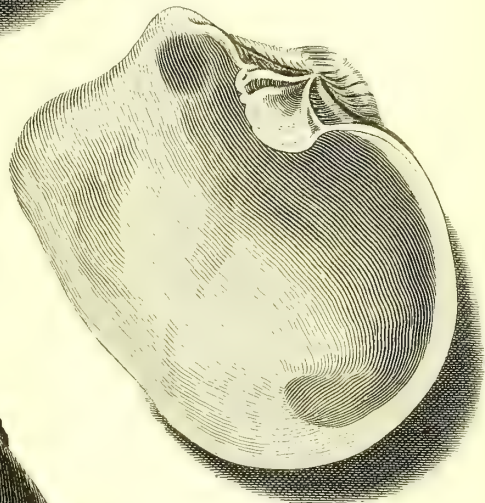
GENUS MYA\_G.MACTRA\_G.CHAMA\_G.VENUS\_G.MYTILUS\_G.DONAX.



*V. Islandica*



*D. trunculus*

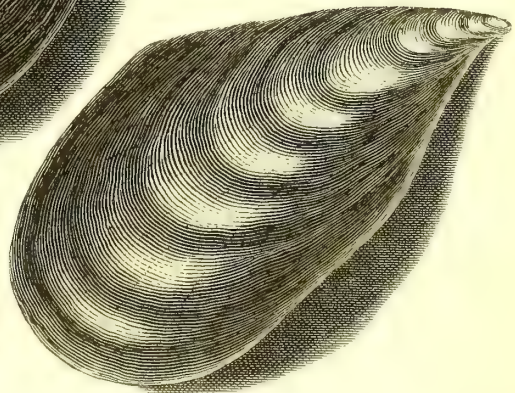


*Mya truncata*



*V. Islandica*

*Myt. edulis*  
*var. purpureus*



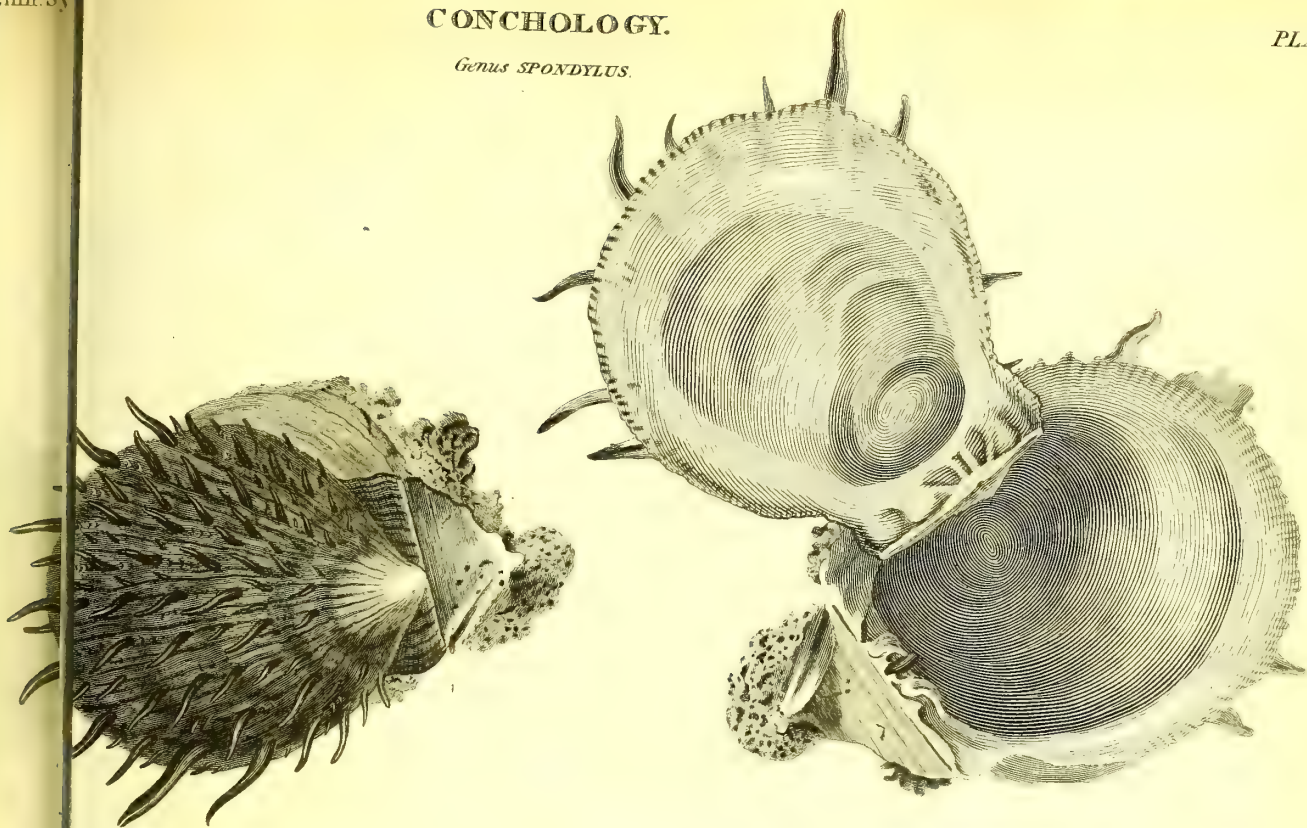




CONCHOLOGY.

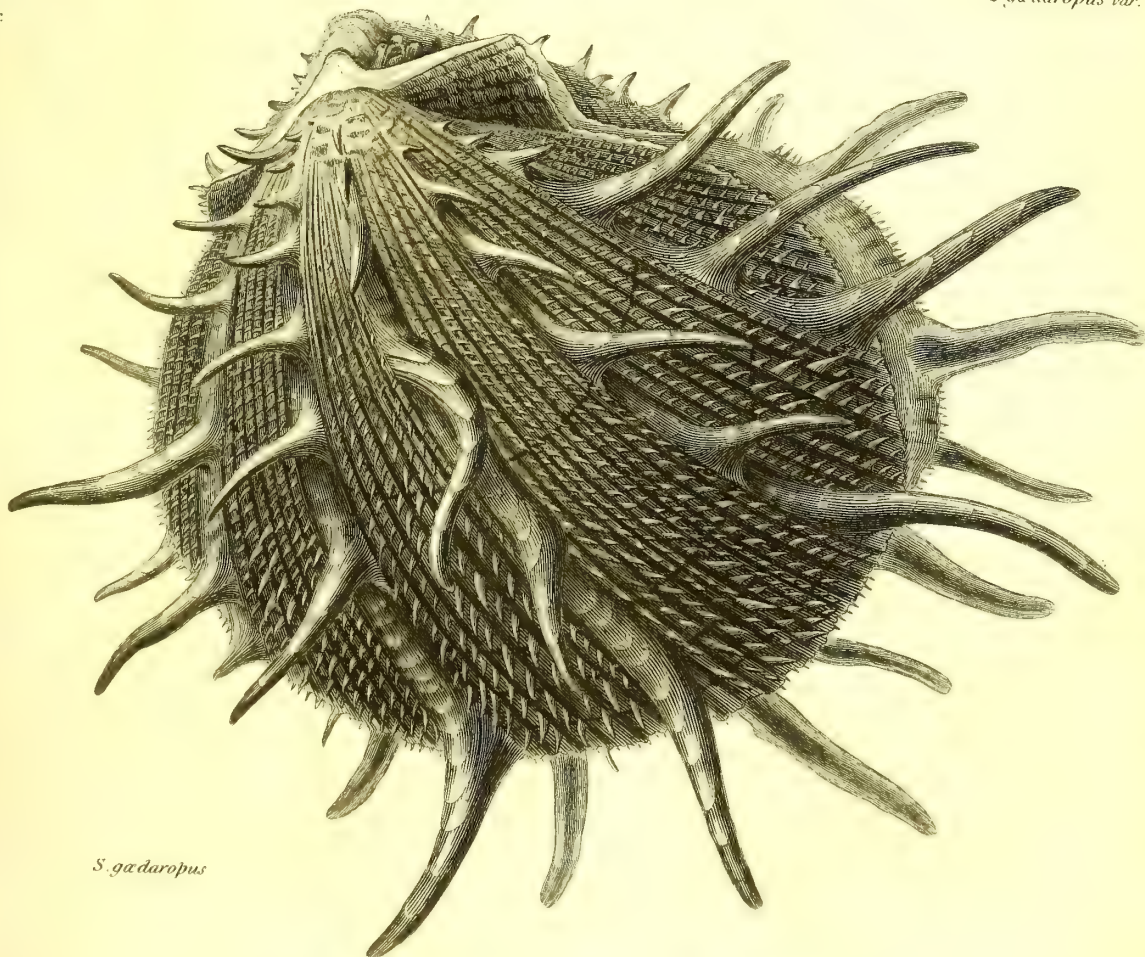
Genus SPONDYLUS.

PLATE XVII.



*S. quadricornis* var.

*S. gadaropus* var.



*S. gadaropus*

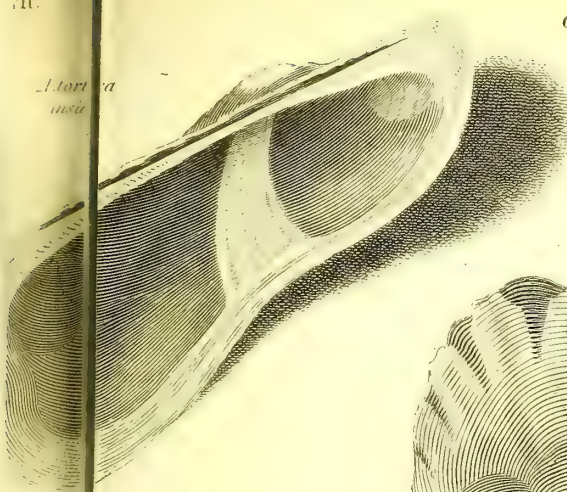




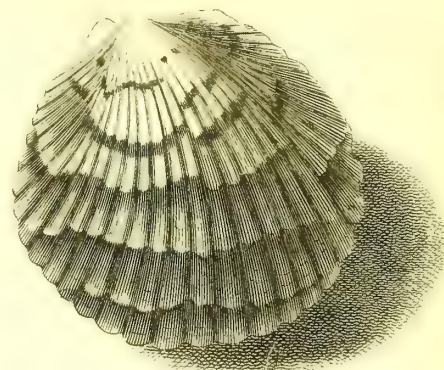
# CONCHOLOGY.

Genus *ARCA*.

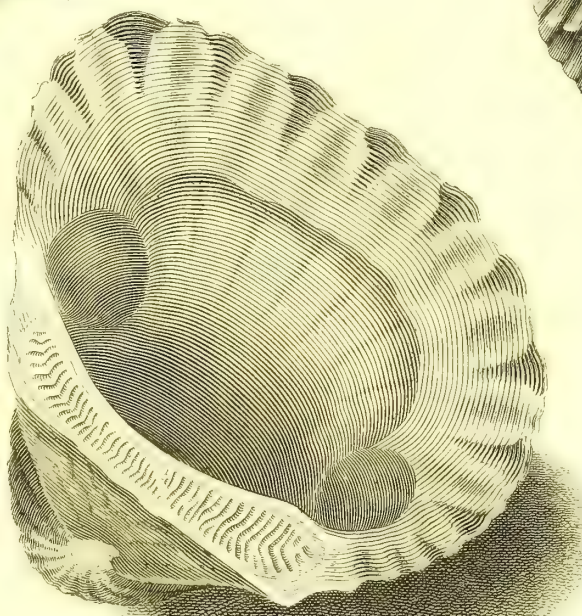
PLATE VIII.



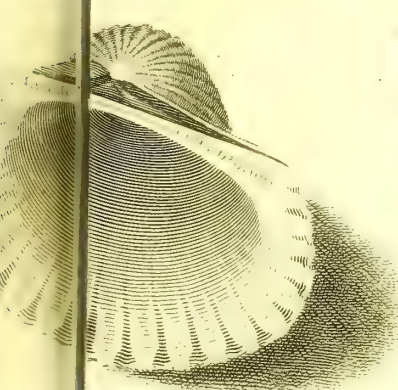
*A. tortuosa*



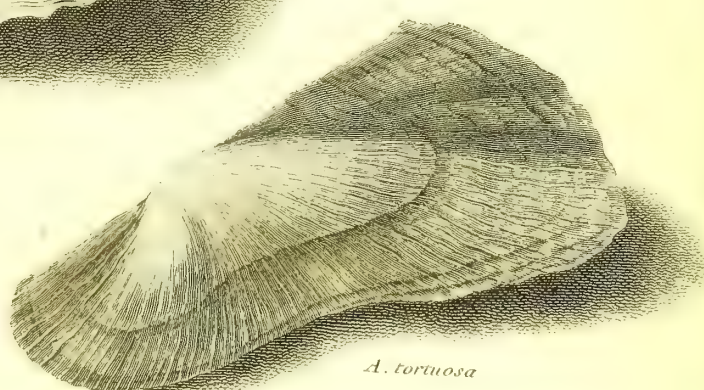
*A. nebulosa*



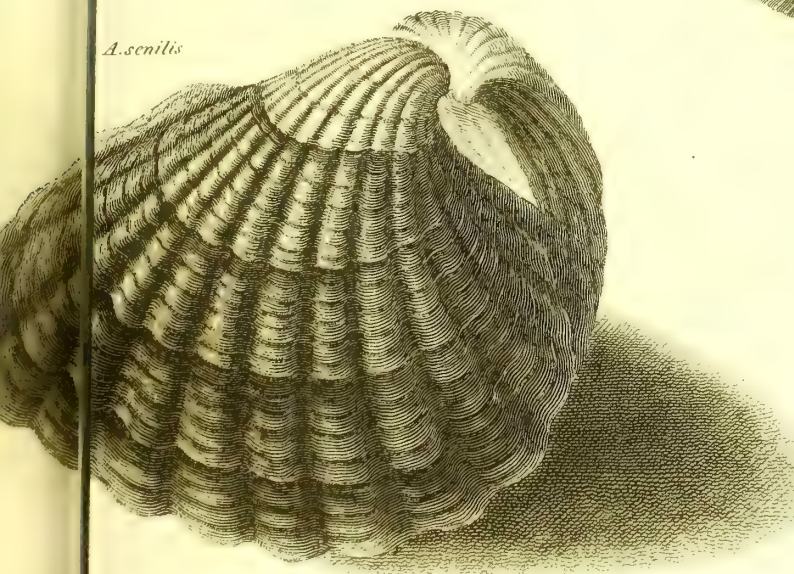
*A. senilis*  
inside



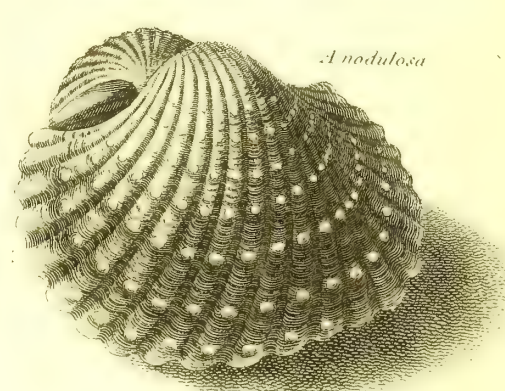
*A. nodulosa*



*A. tortuosa*



*A. senilis*



*A. nodulosa*

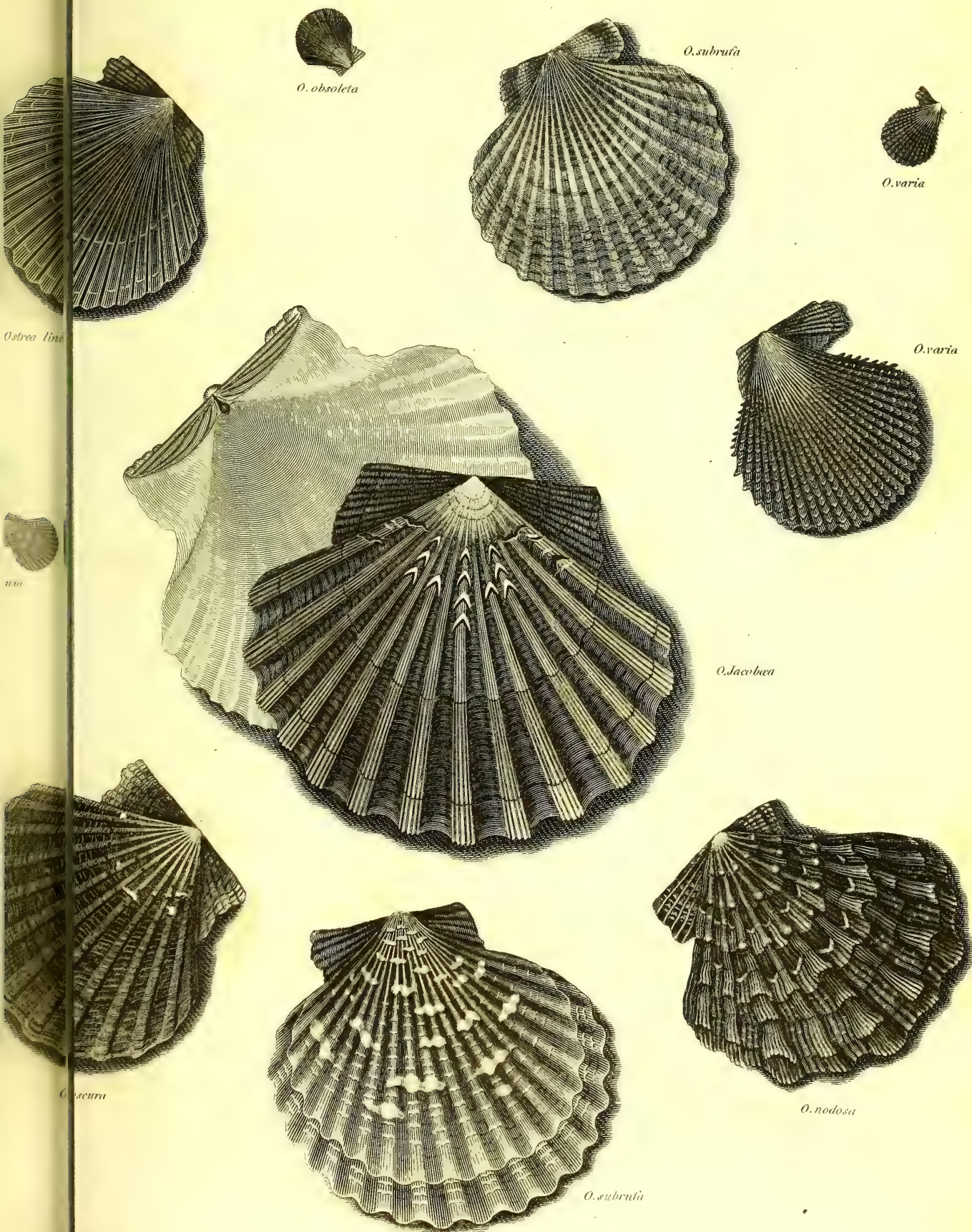




## CONCHOLOGY.

GENUS *OSTREA*.

PLATE XII.

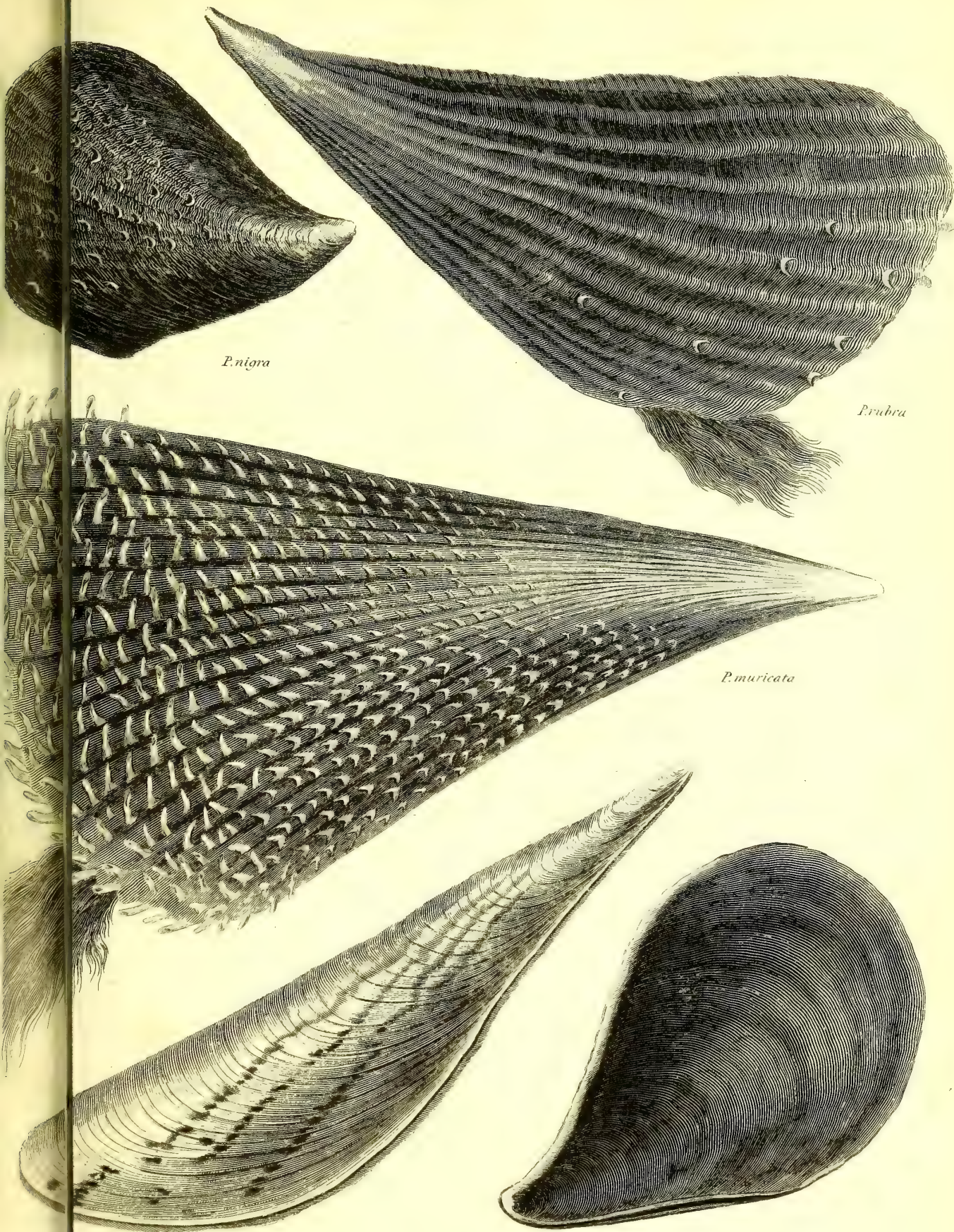








Genus PINNA.



*P. nigra*

*P. rubra*

*P. muricata*

*P. fragilis*

*P. nigra inside*



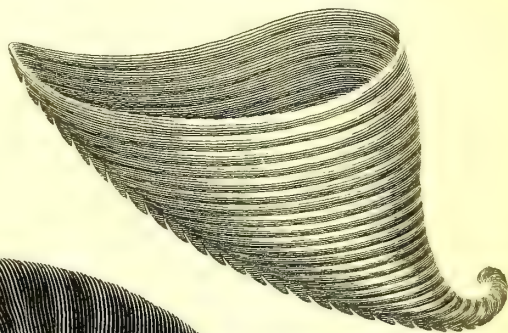




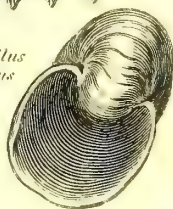
*Argonauta Argo*



*Argonauta Vitreus*



*Nautilus  
Pompilius*



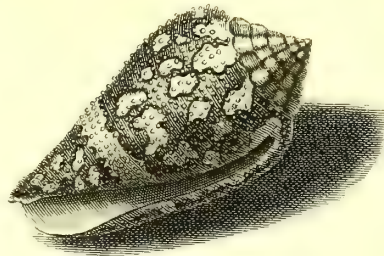
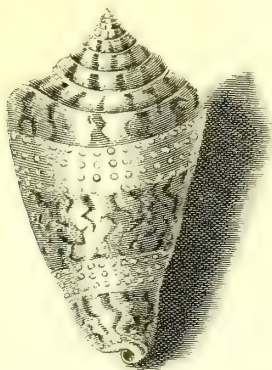
*Nautilus Pompilius*





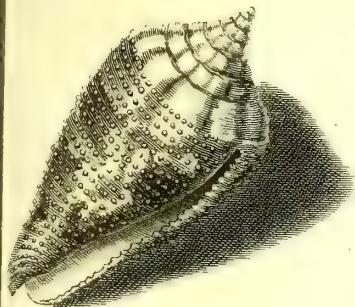
# CONCHOLOGY.

GENUS *BULLA* - *G. CONUS* - *G. TURBO* - *G. HELIX* - *G. NERITA*.



*C. Ammiralis* var.  
Sebas C.n.C.

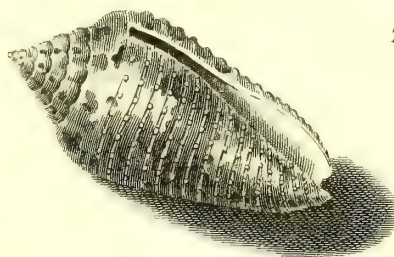
*C. Ammiralis* var.  
Banded Cedo nulli Cone



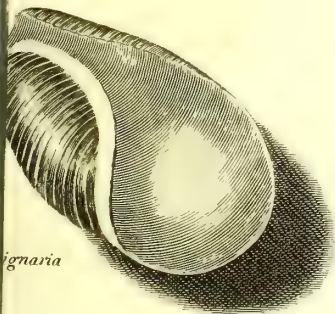
*Ammiralis* var.  
uracao C.n.C.



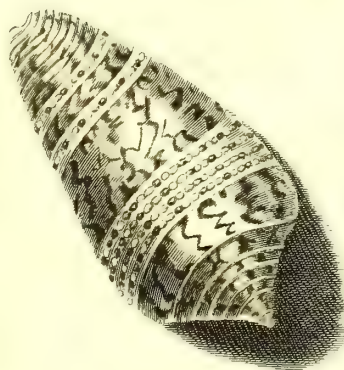
*T. trilineatus*



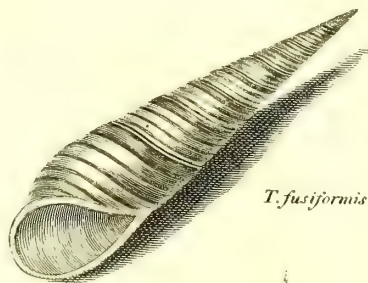
*C. Ammiralis* var.  
Southern C.n.C.



*signaria*



*C. Ammiralis* var.  
Marbled C.n.C.



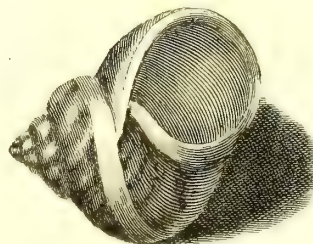
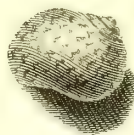
*T. fusiformis*



*N. carena*



*N. carena*



*H. hortensis*



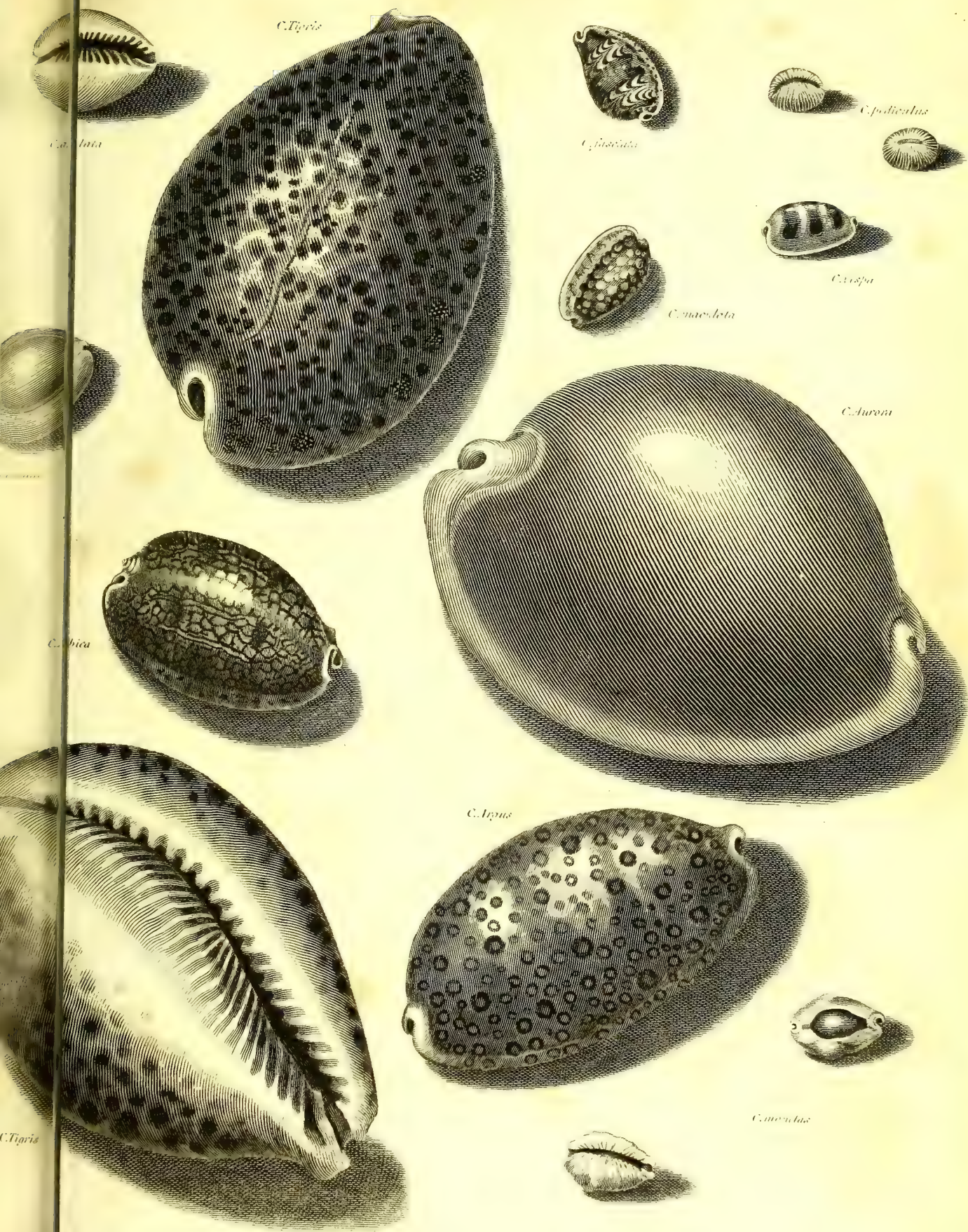




# CONCHOLOGY.

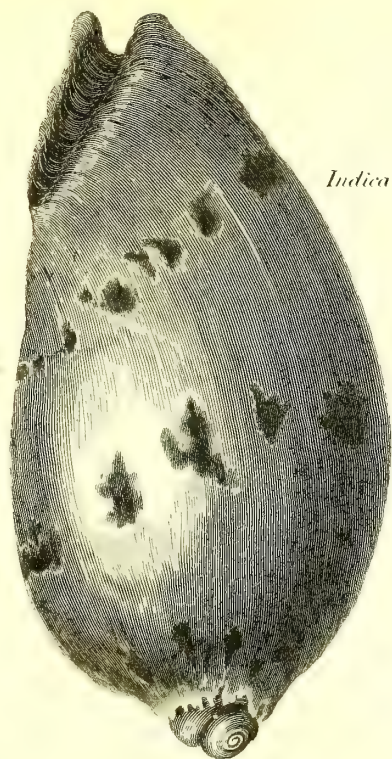
GENUS CYPREA.

PLATE XIV









*Indica*



*Papalis*



*Papalis*

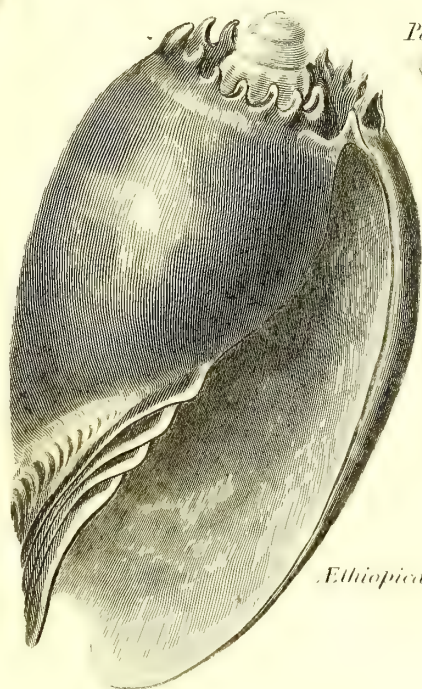


*Oliva*

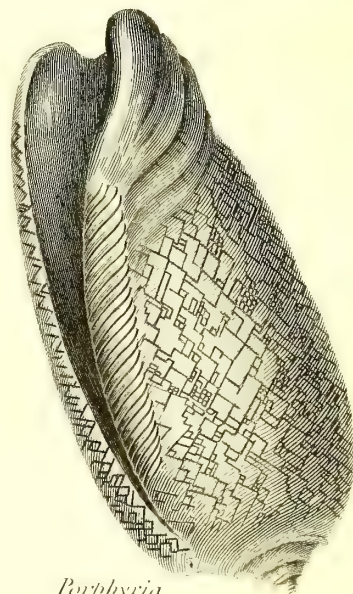
*Tornatilis*



*Pallida*



*Ethiopica*



*Porphyria*

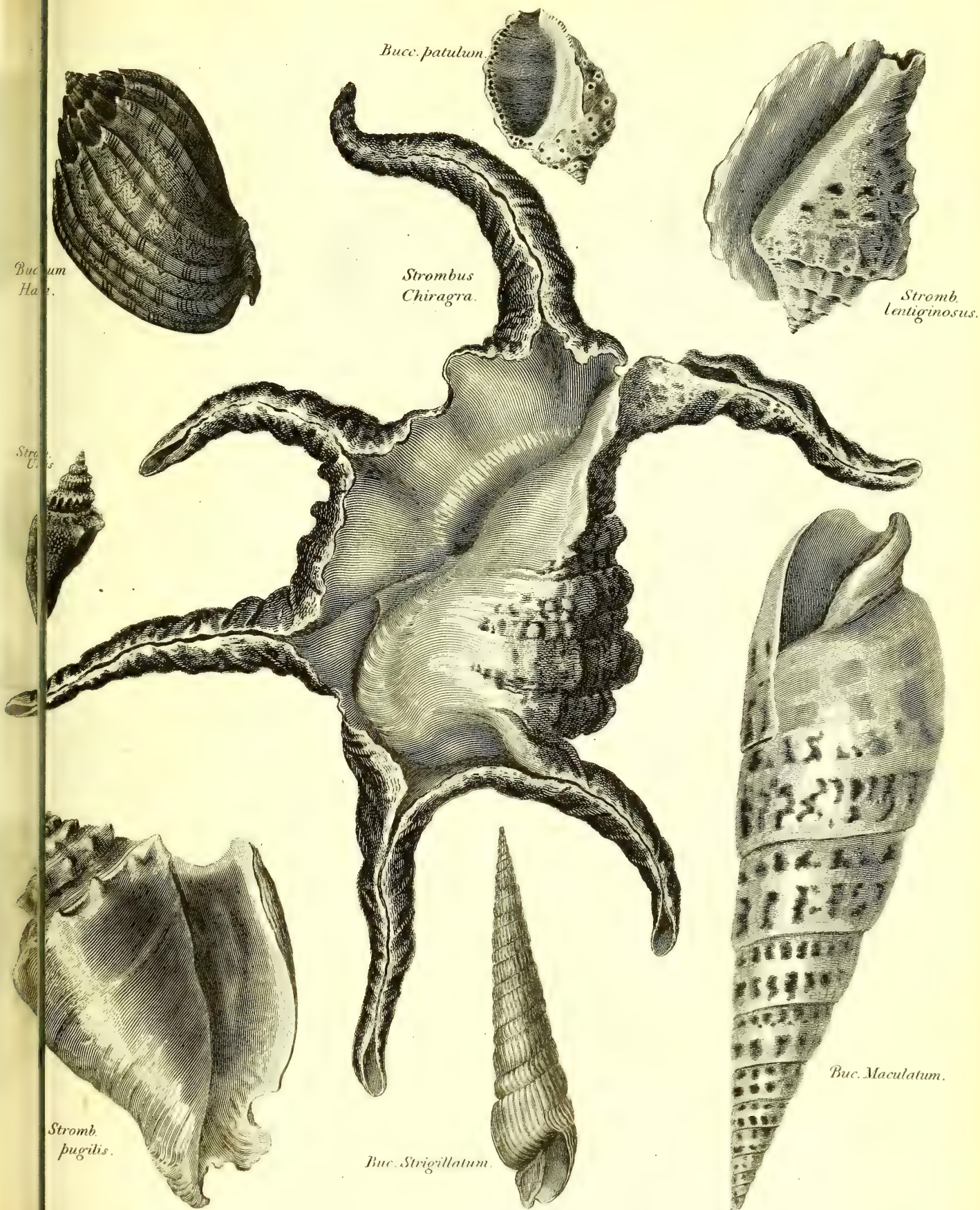


*piscopalis*





Order Volutæ.





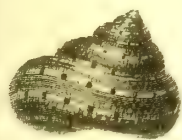
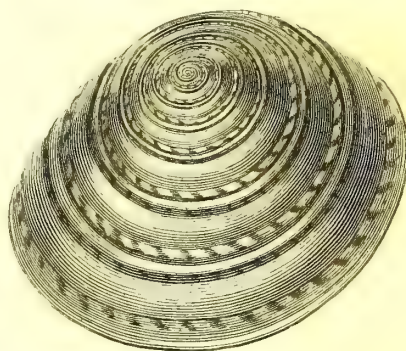
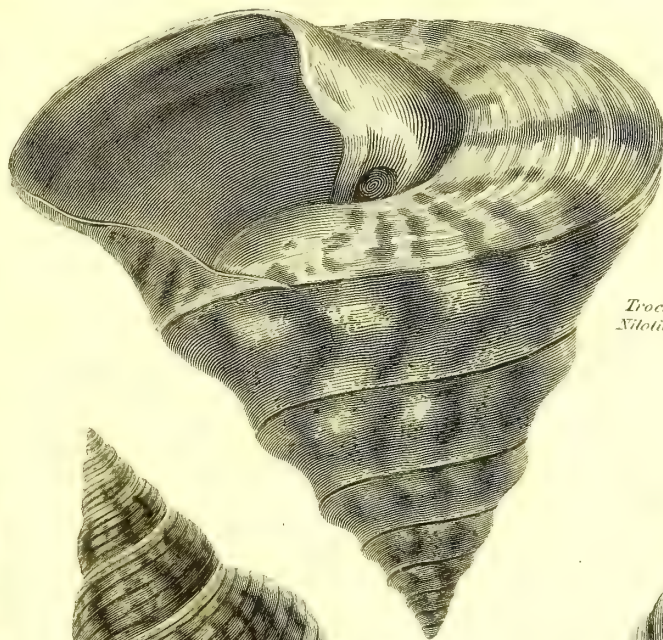
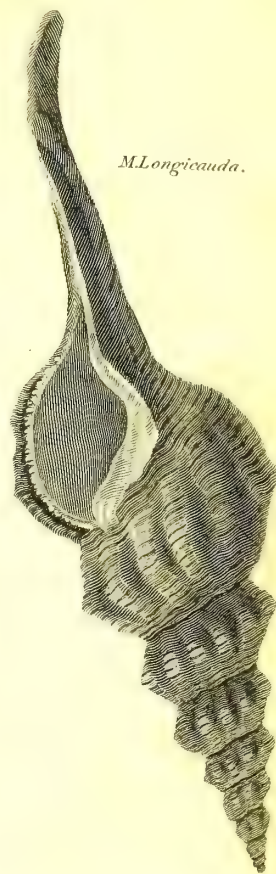
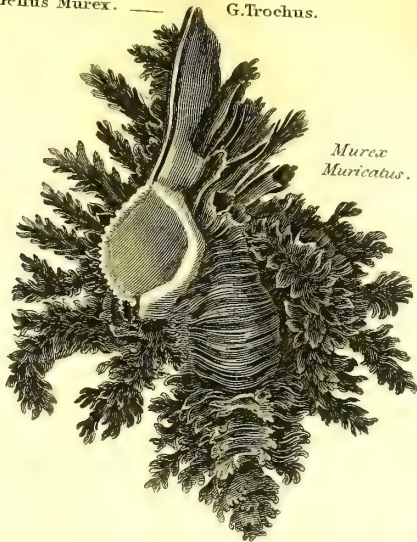
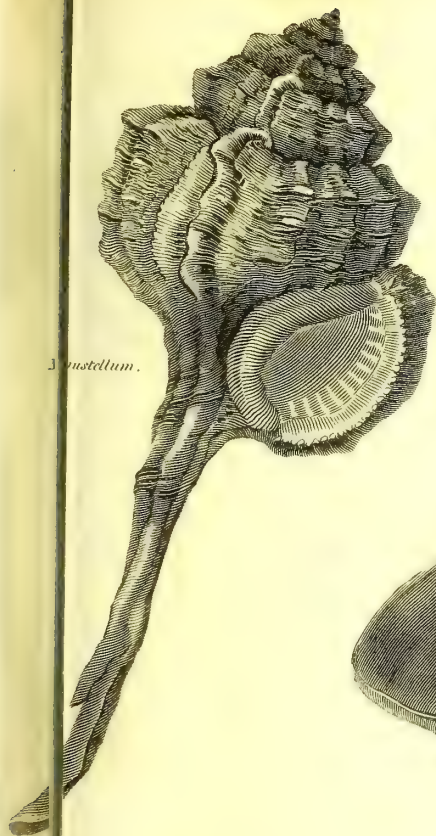


# CONCHOLOGY.

ORDER UNIVALVE.

Genus Murex. — G. Trochus.

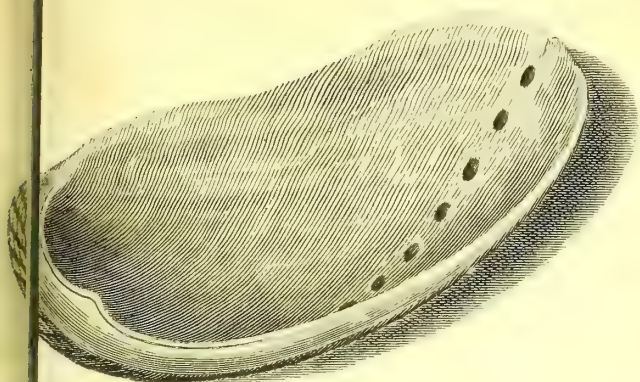
PLATE III.



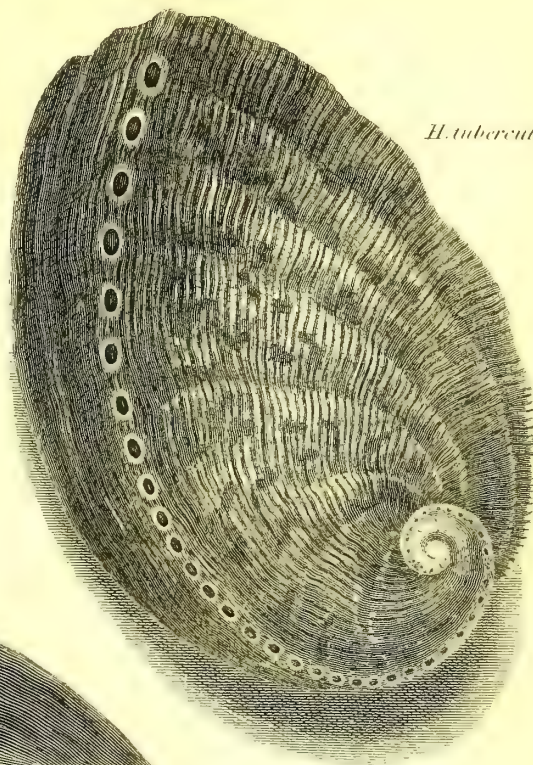








*H. asinum*

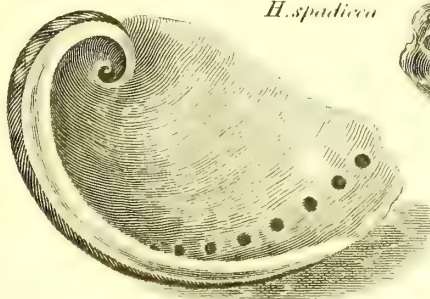


*H. tuberculata*

*H. lavigata*



*H. asinum*



*H. spadicea*





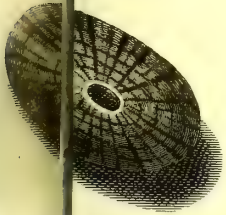


# CONCHOLOGY.

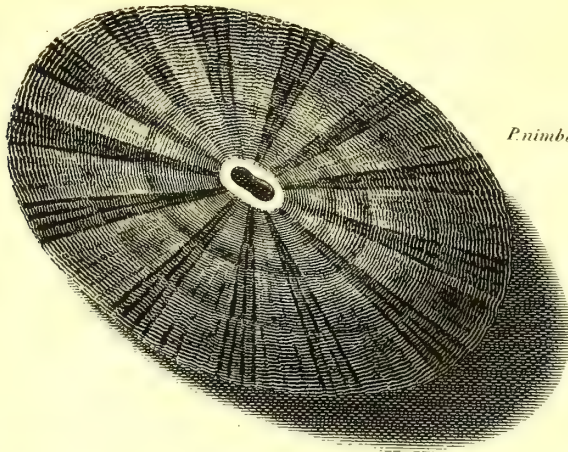
GENUS *PATELLA*.

PLATE 1.

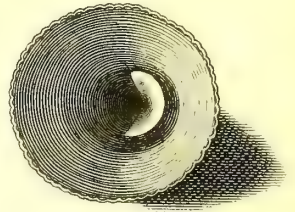
*P. radiata*



*P. nimbosa*



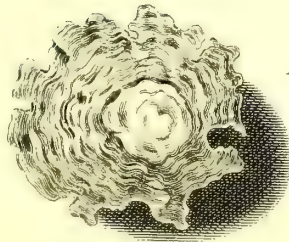
*P. striata*  
inside



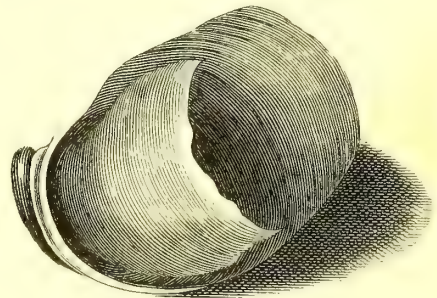
*P. fissurella*



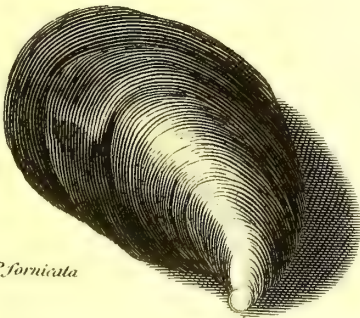
*P. equestris*



*P. fornicata*  
inside



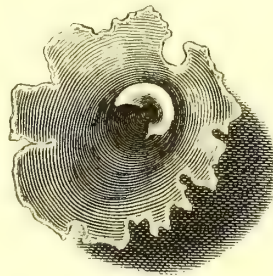
*P. fornicata*



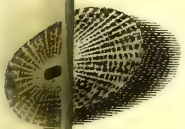
*P. fissurella*



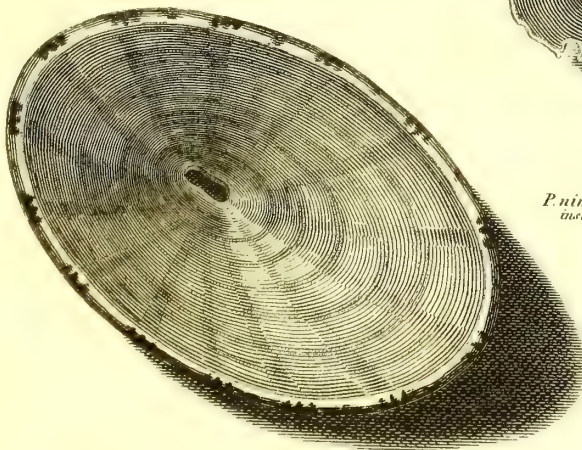
*P. equestris*  
inside



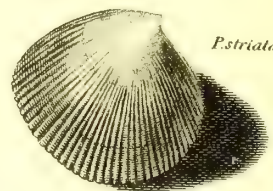
*P. greca*



*P. nimbosa*  
inside



*P. striata*



*P. lobata*





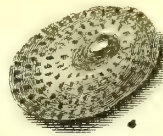


GENUS *PATELLA*.

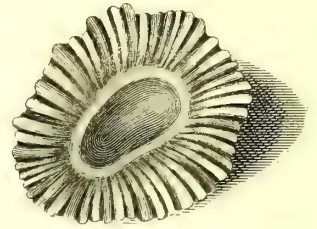
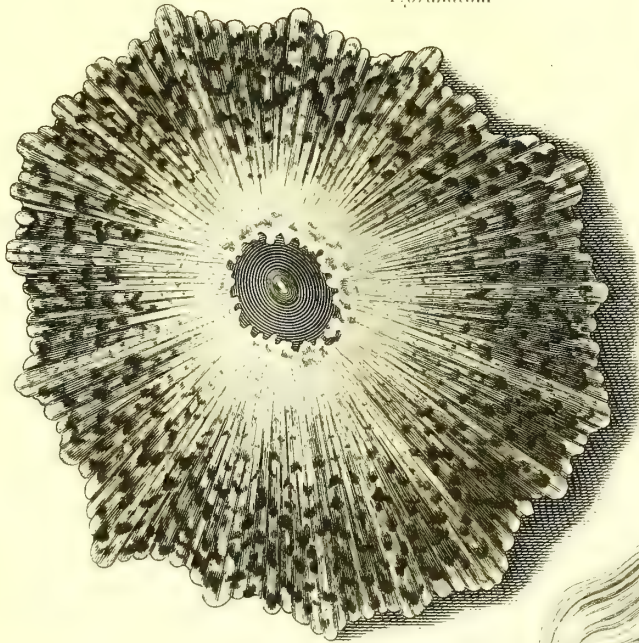
*P. sagittata*



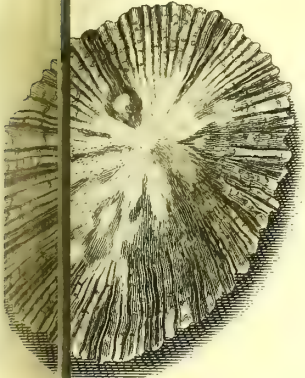
*P. virgata*



*P. granatina*



*P. auricula*



*P. vulgata* var.

*P. anatina*



*P. granatina*  
inside

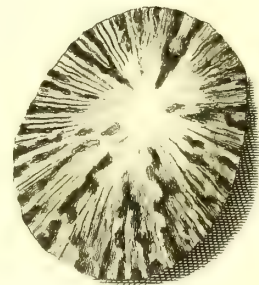


*P. auricula*

*P. auricula*



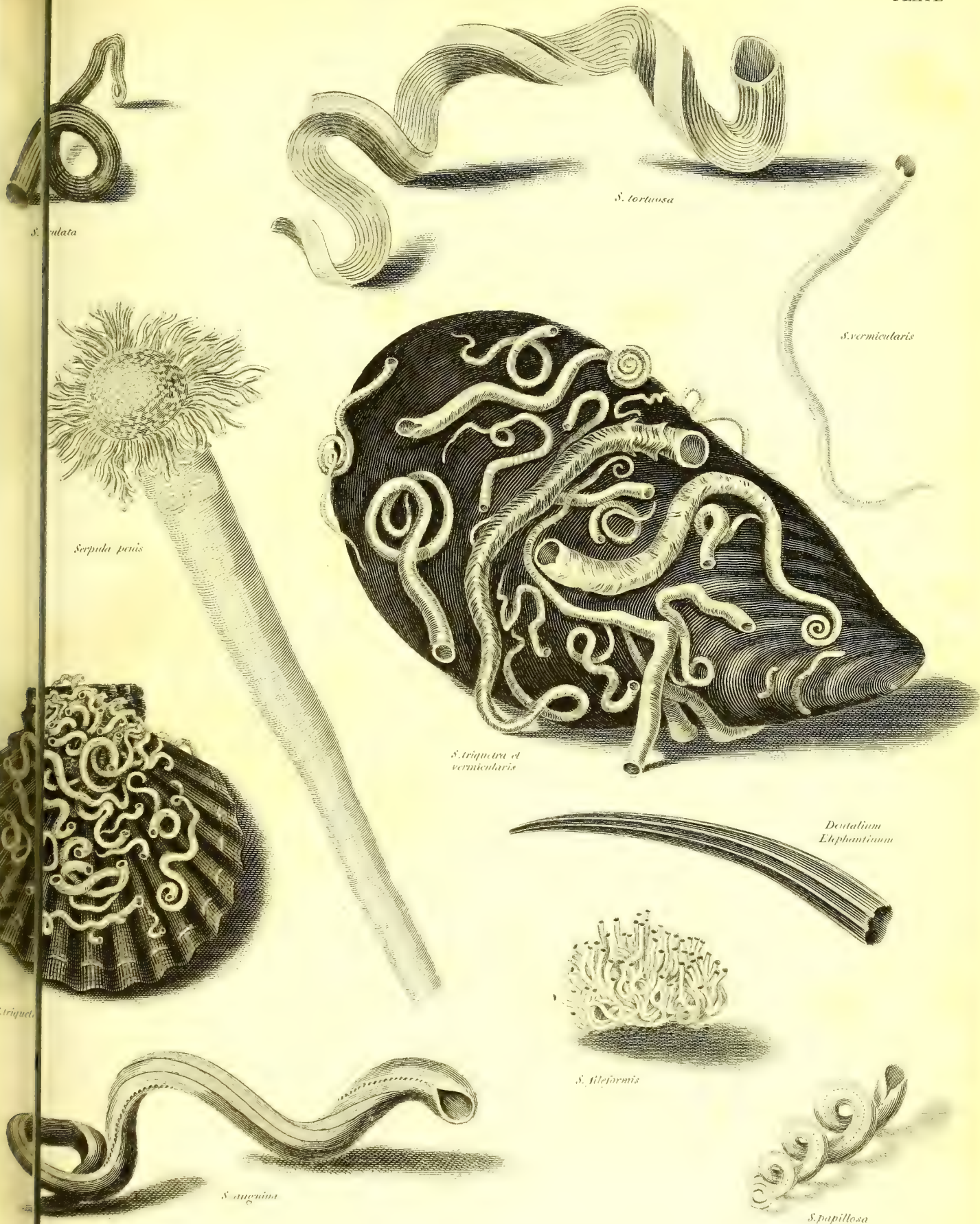
*P. strigata*



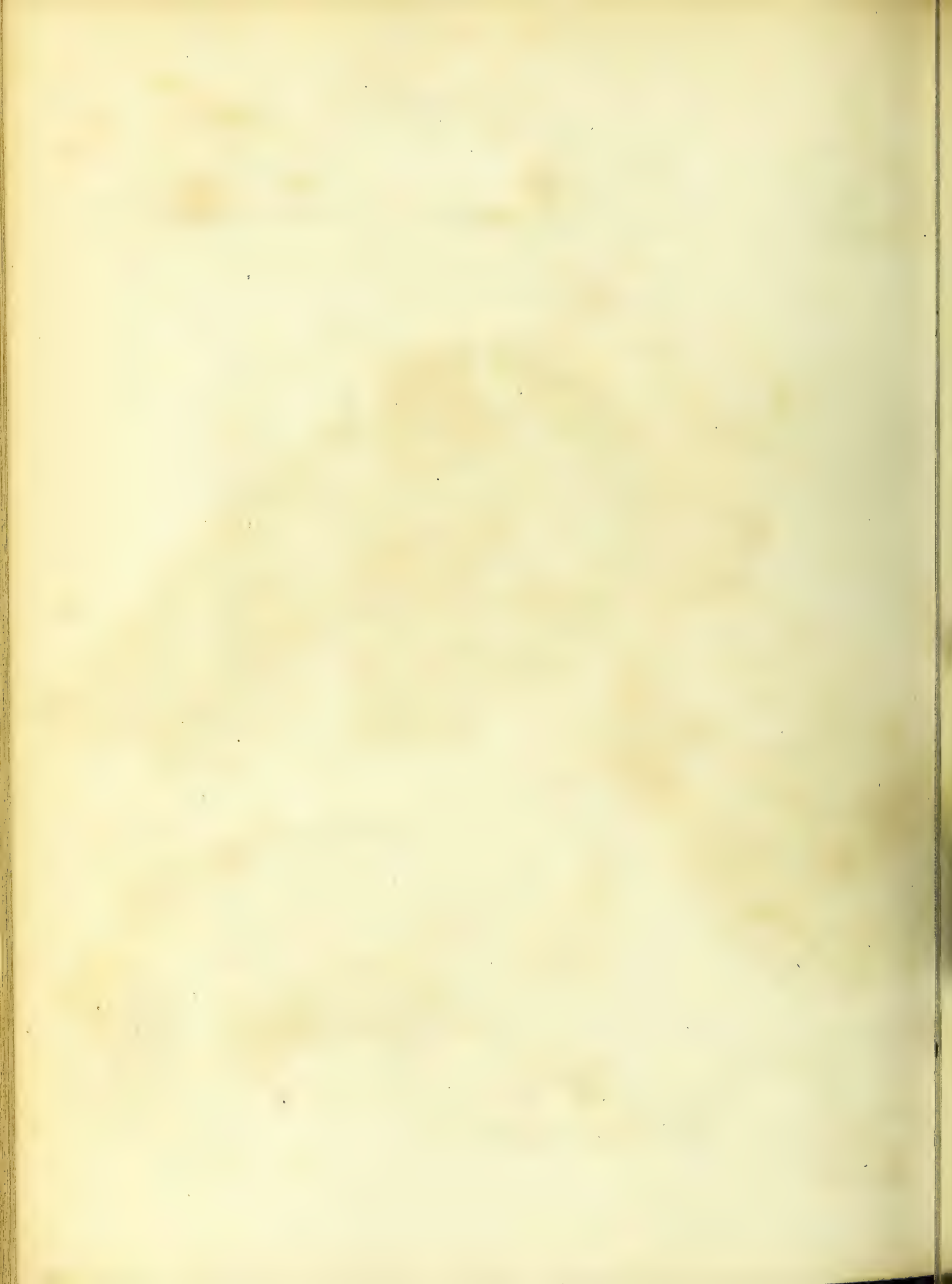




CONCHOLOGY.  
GENUS DENTALIUM — GENUS SERPULA.









CONCHOLOGY.  
GENUS TEREDO — GENUS SABELLA.

PLATE X.

*Teredo Navalis*

*Sabella alveolata*

*S. belgica*

*S. belgica*

*T. Navalis*



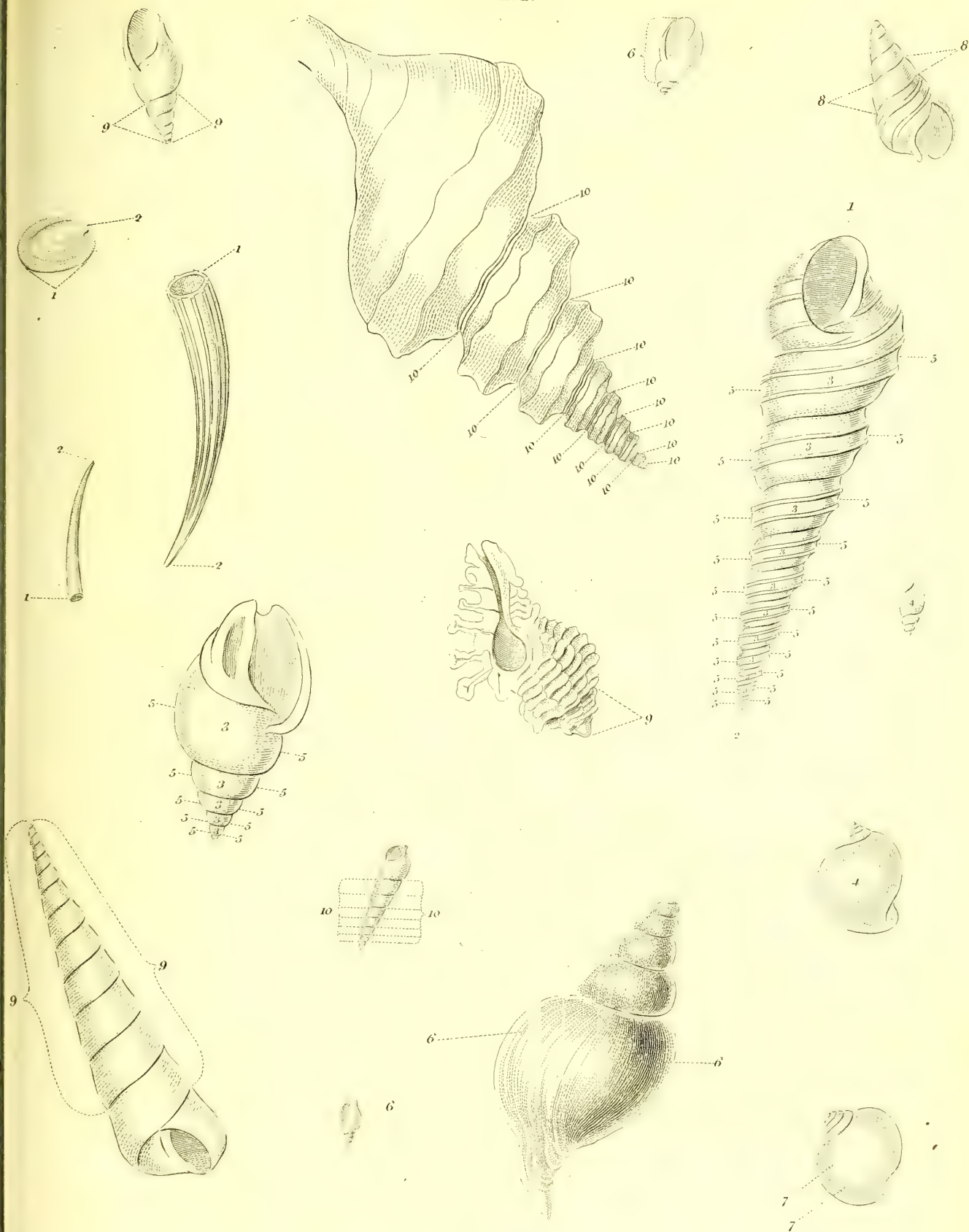


# CONCHOLOGY.

Elementary.

UNIVALVE.

PLATE I

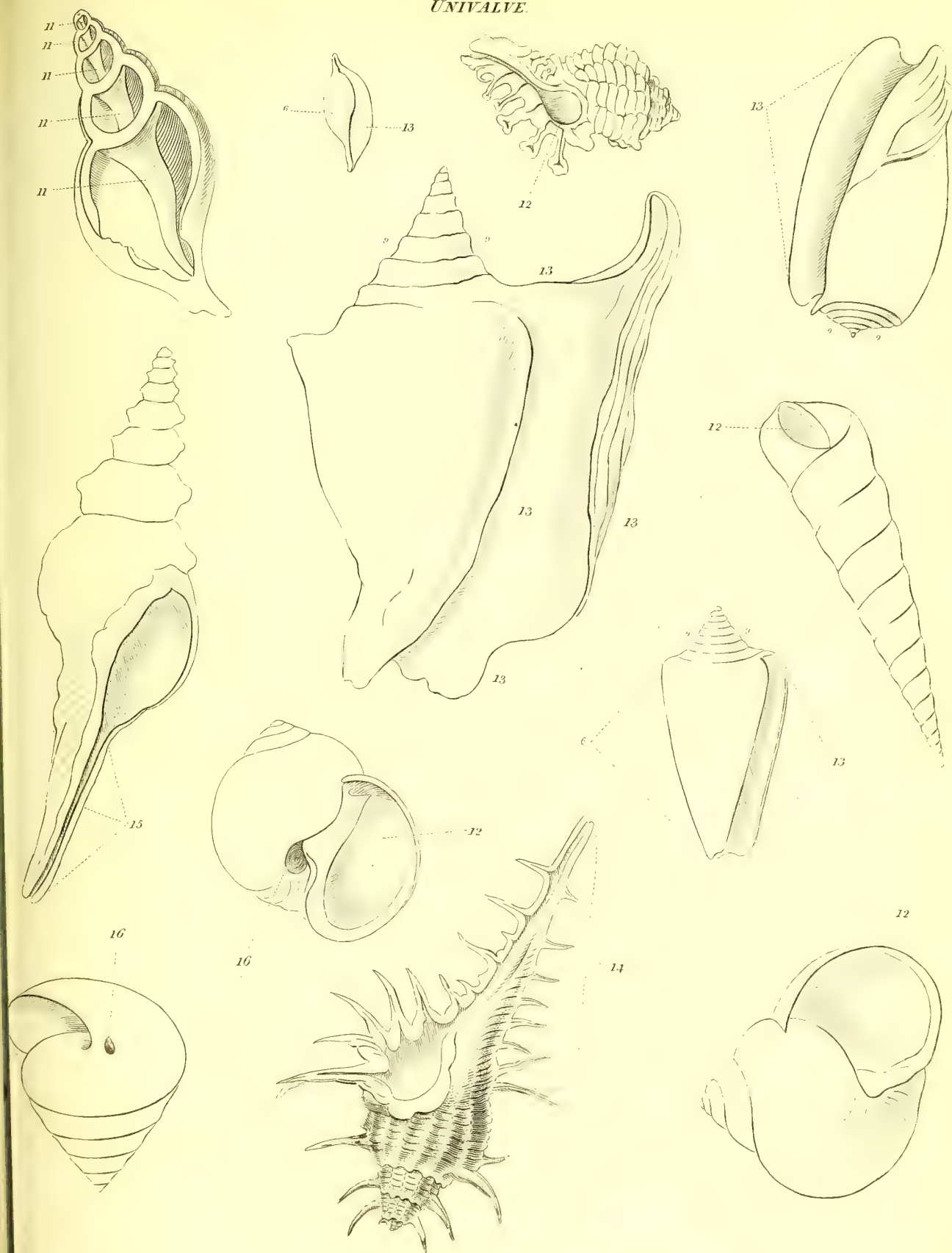


1. Base. 2. Apex. 3. Front. 4. Back. 5. Sides. 6. Body. 7. Belly. 8. Whorl. 9. Spire. 10. Suture of the Spire or Whorl.

Published as the Act directs Oct. 1<sup>st</sup> 1810. by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.



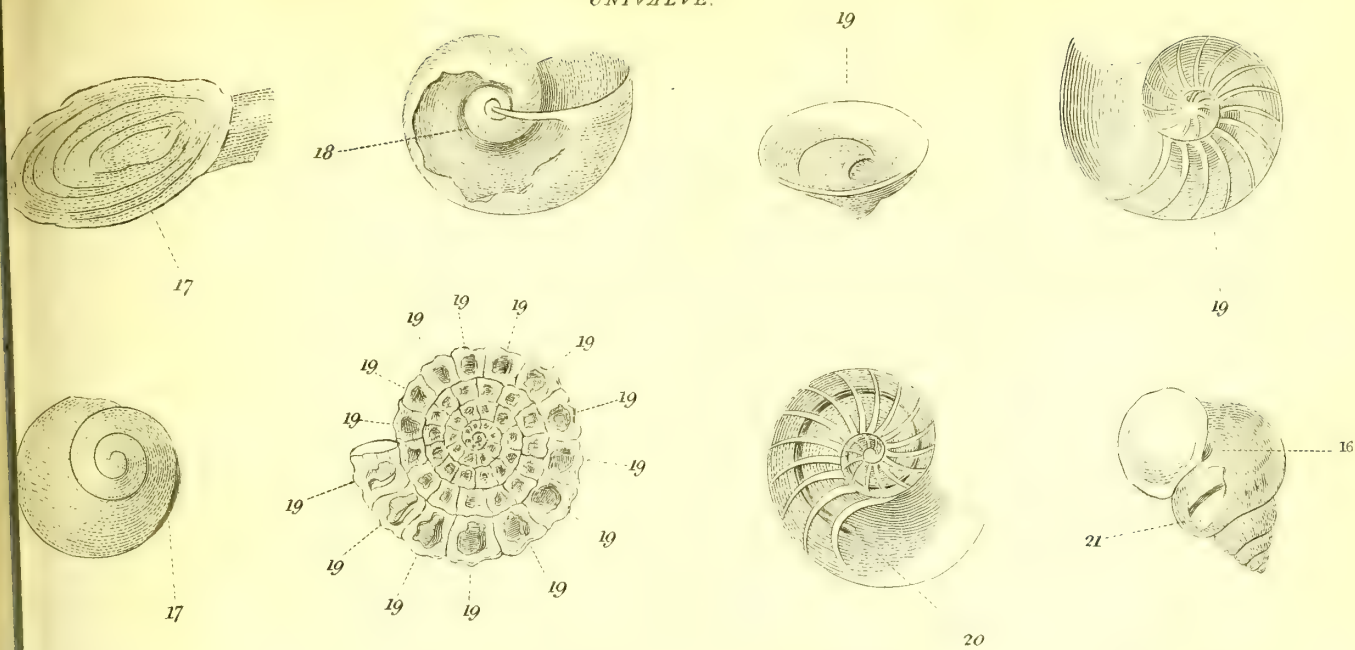




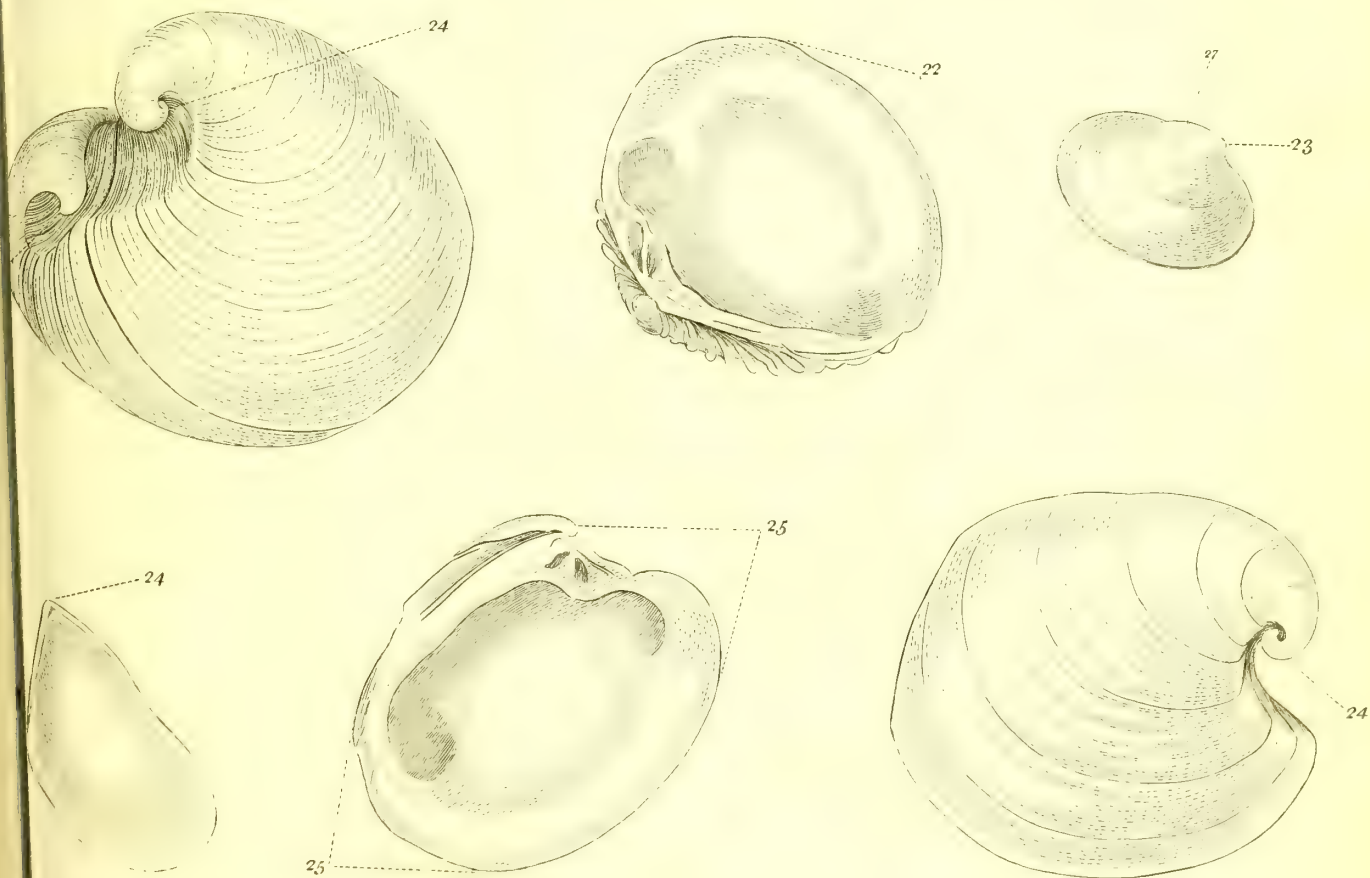
11 Billar or Columella. 12 Aperture. 13 Lip. 14 Beak. 15 Canal. 16 Umbilicus.







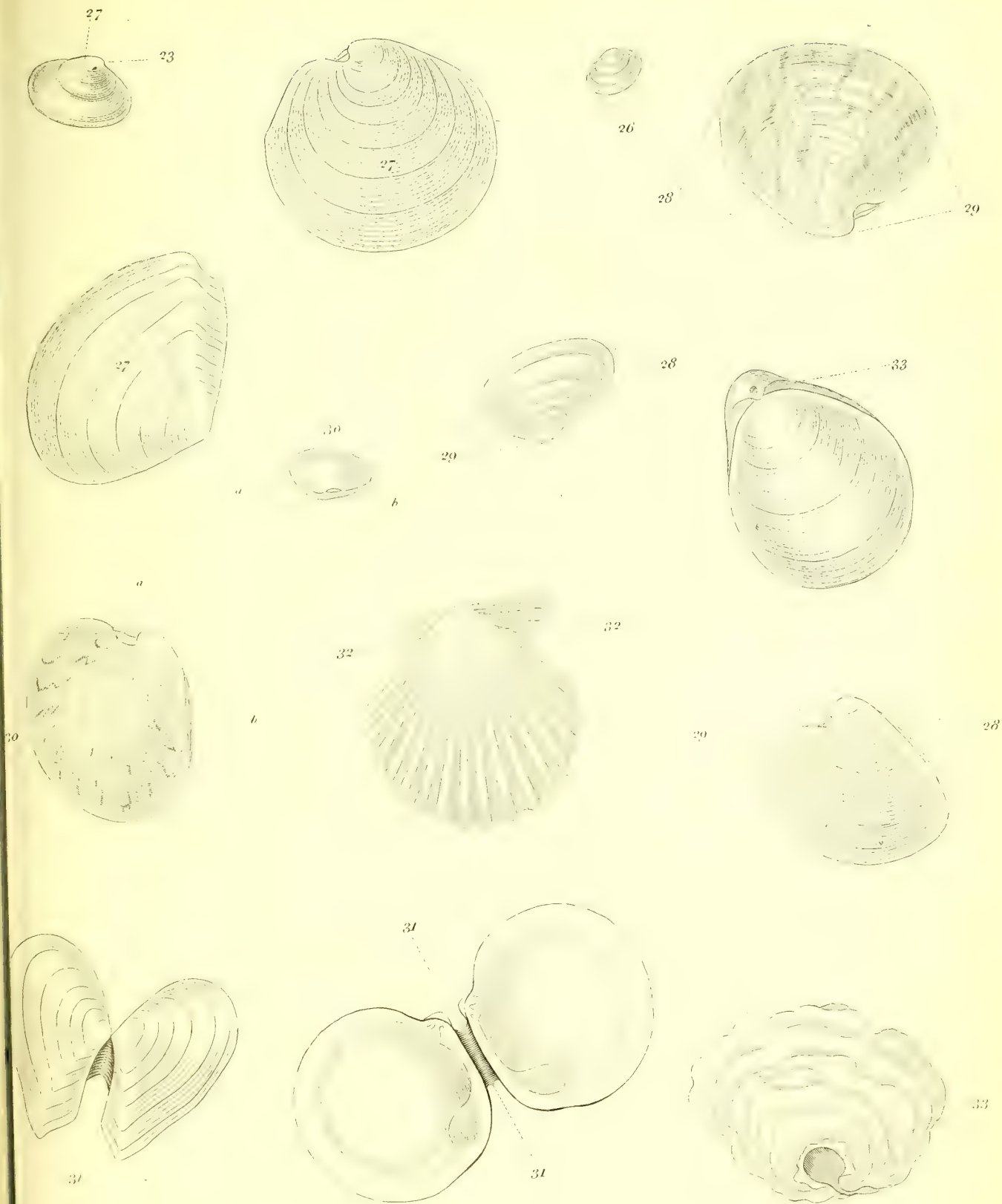
BIVALVES



17. Operculum. 18. Involute Spire. 19. Chambers. 20. Siphunculus. 21. Epidermis. 22. Base. 23. Summit. 24. Beak. 25. Sides.



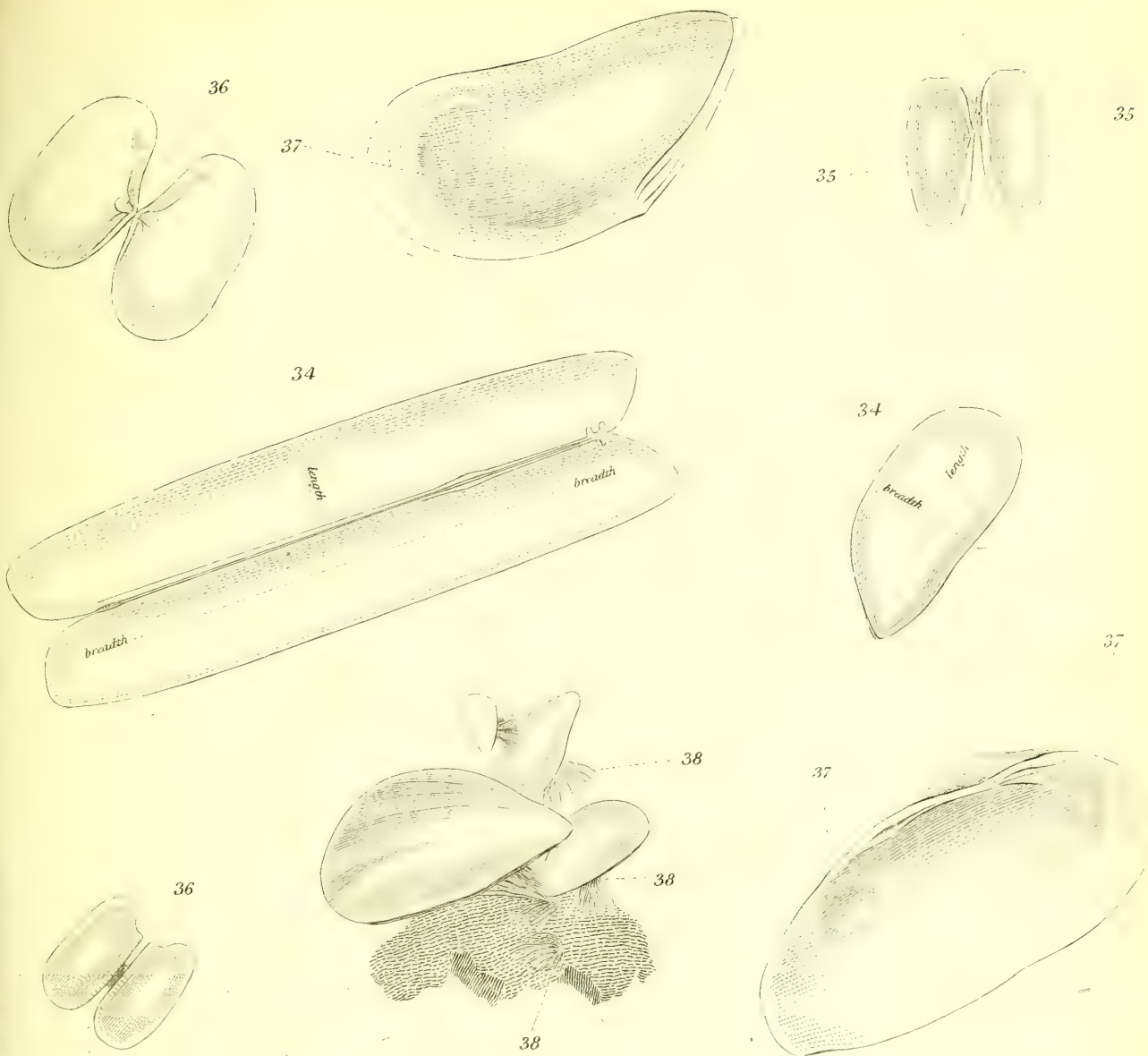




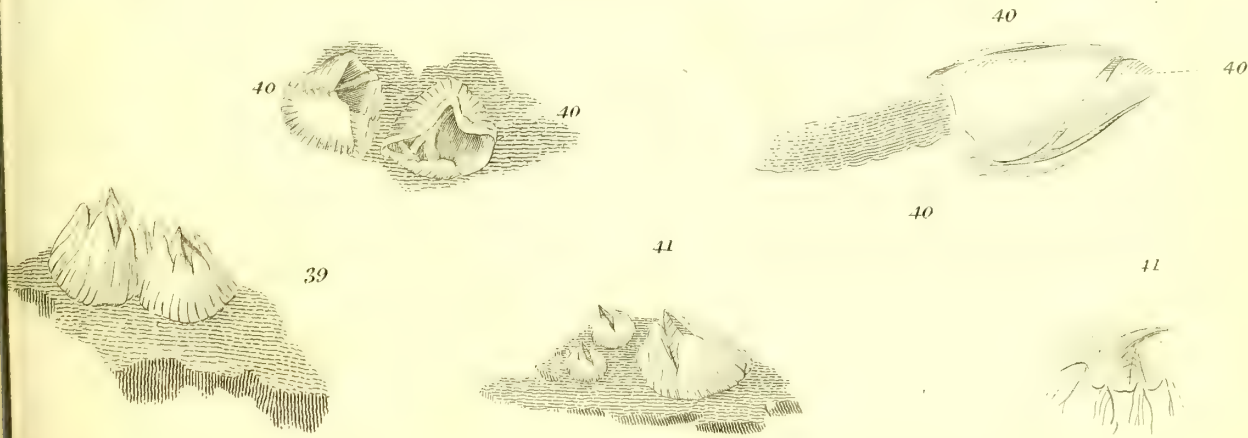
26. Margin or Limb. 27. Disk. 28. Anterior Slope. 29. Posterior Slope. 30. Lunule. a. b. 31. Cartilage. 32. Ears. 33. Ligament perforation.







MULTIVALVES



34. Length and Breadth—35. Inside—36. Hinge—37. Cicatrix—38. Byssus—39. Base—40. Ligament—41. Operculum.





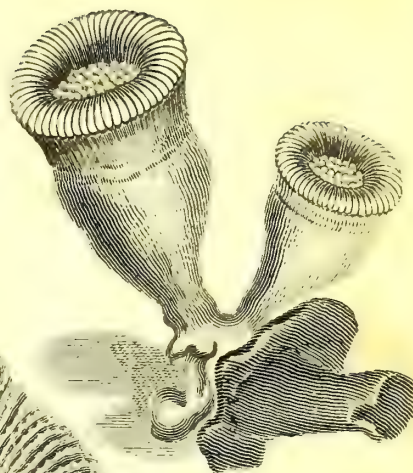
# ZOOPHYTES.

GENUS TUBIPORA\_G.MADREPORA.



ipora musica.

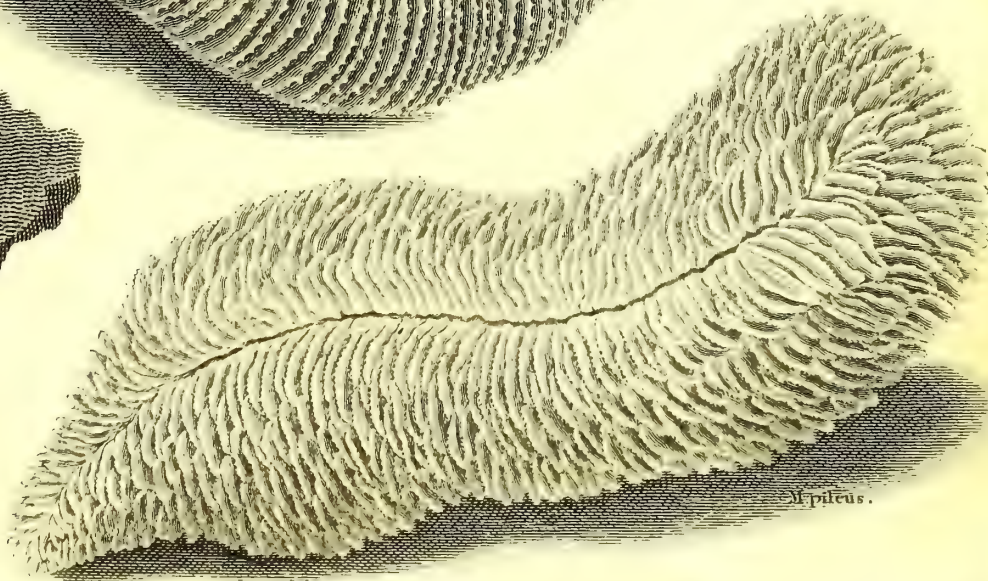
M. fungites.



Madrepora  
Agathus.



M. foliaceus.

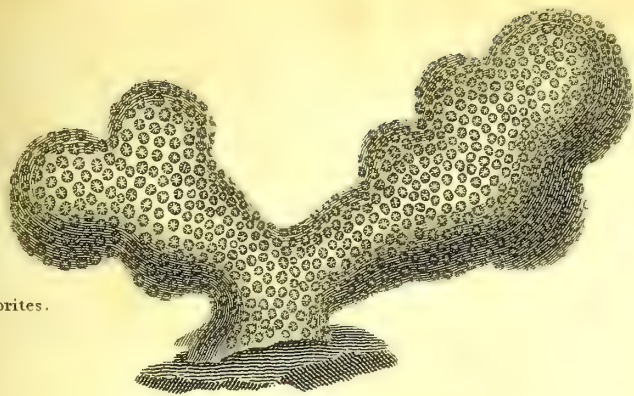


M. pilus.

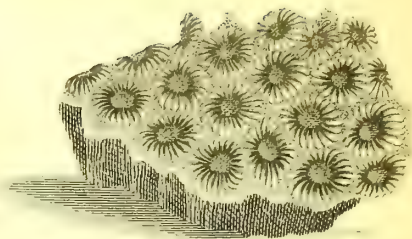




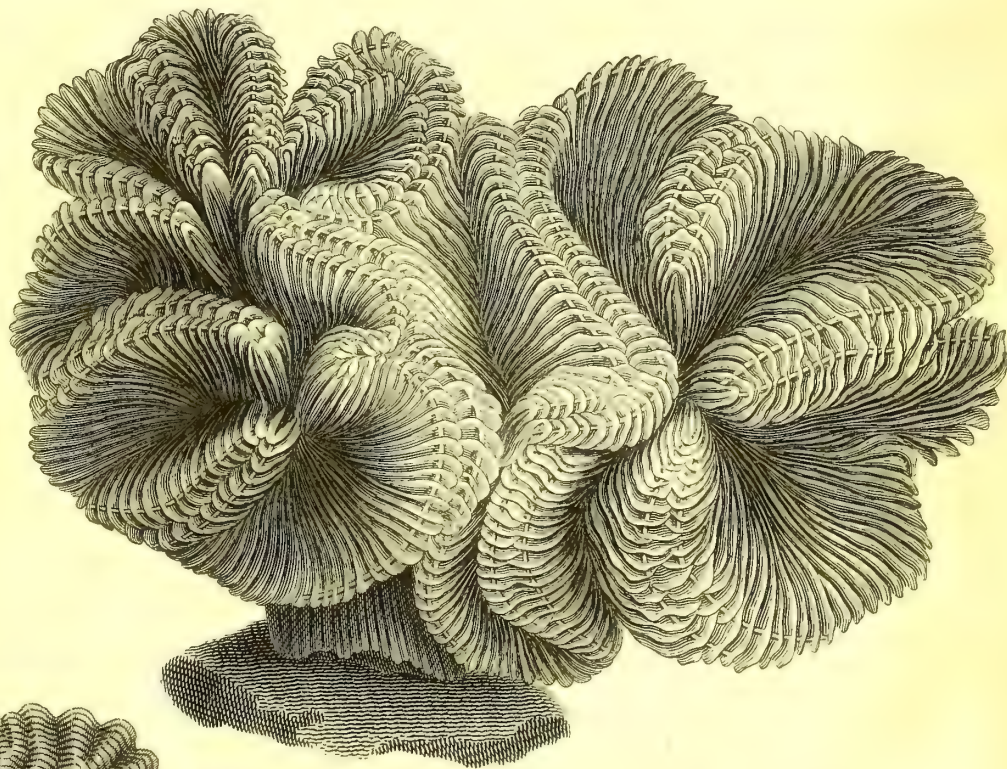
Mporites.



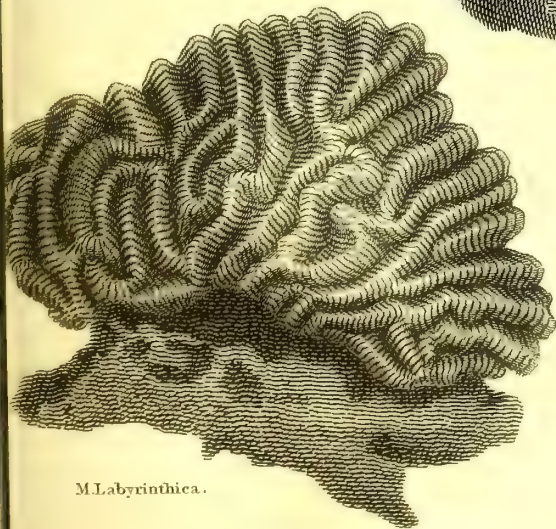
M. ananas.



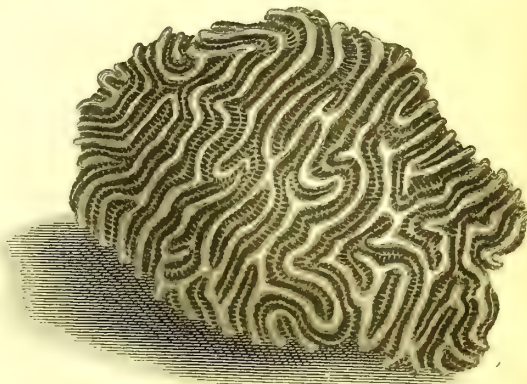
Mareolata.



Madrepora  
gyrosa.



M. Labyrinthica.

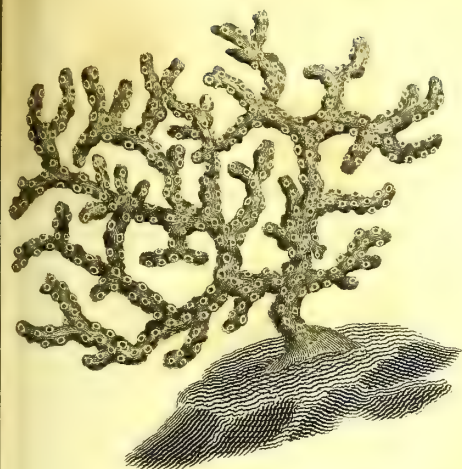


M. phrygia.





GENUS *ISIS* — GENUS *ANTIPATHES*.



*I. Coccinea*



*I. Hippuris*



*A. Subplanata*



*A. Myriophylla*



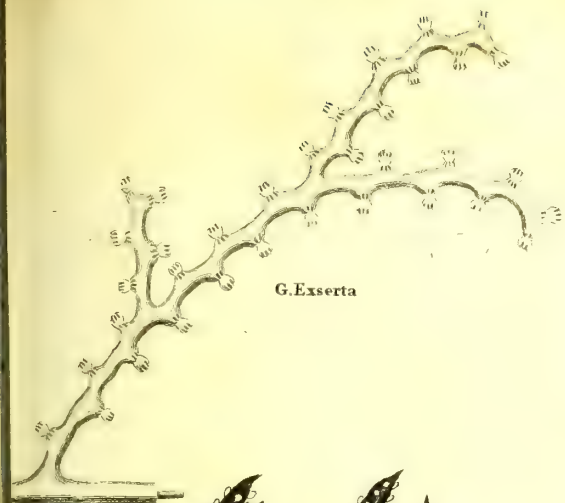


ZOOPHYTES.

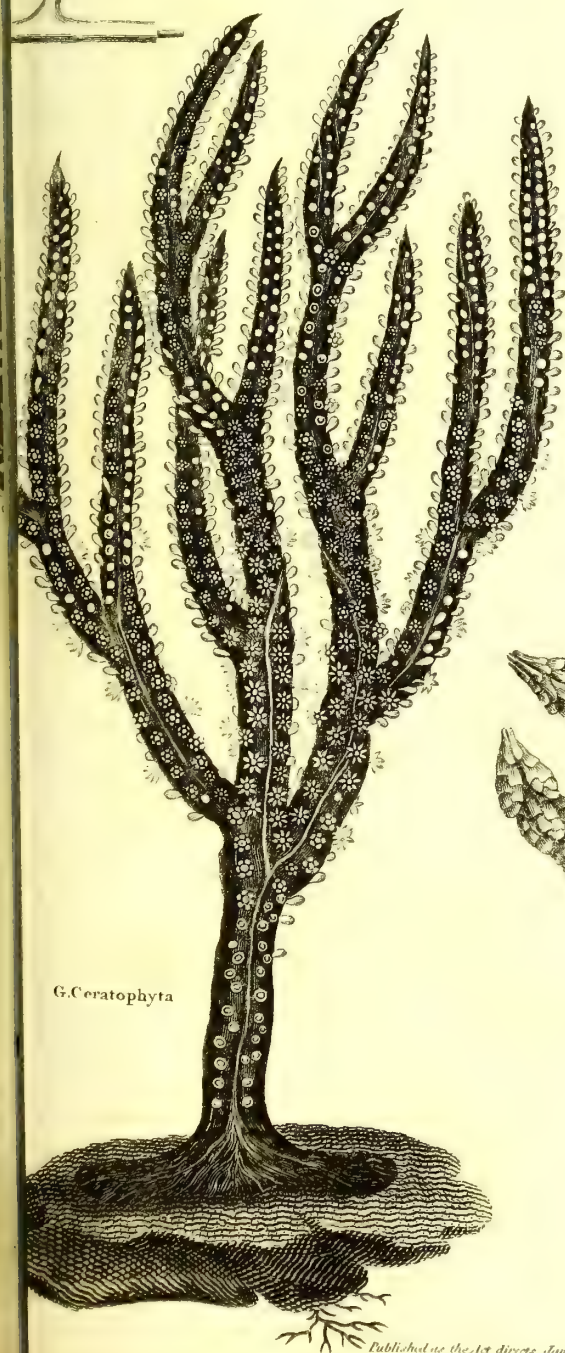
GENUS GORGONIA.

Sea Fan.

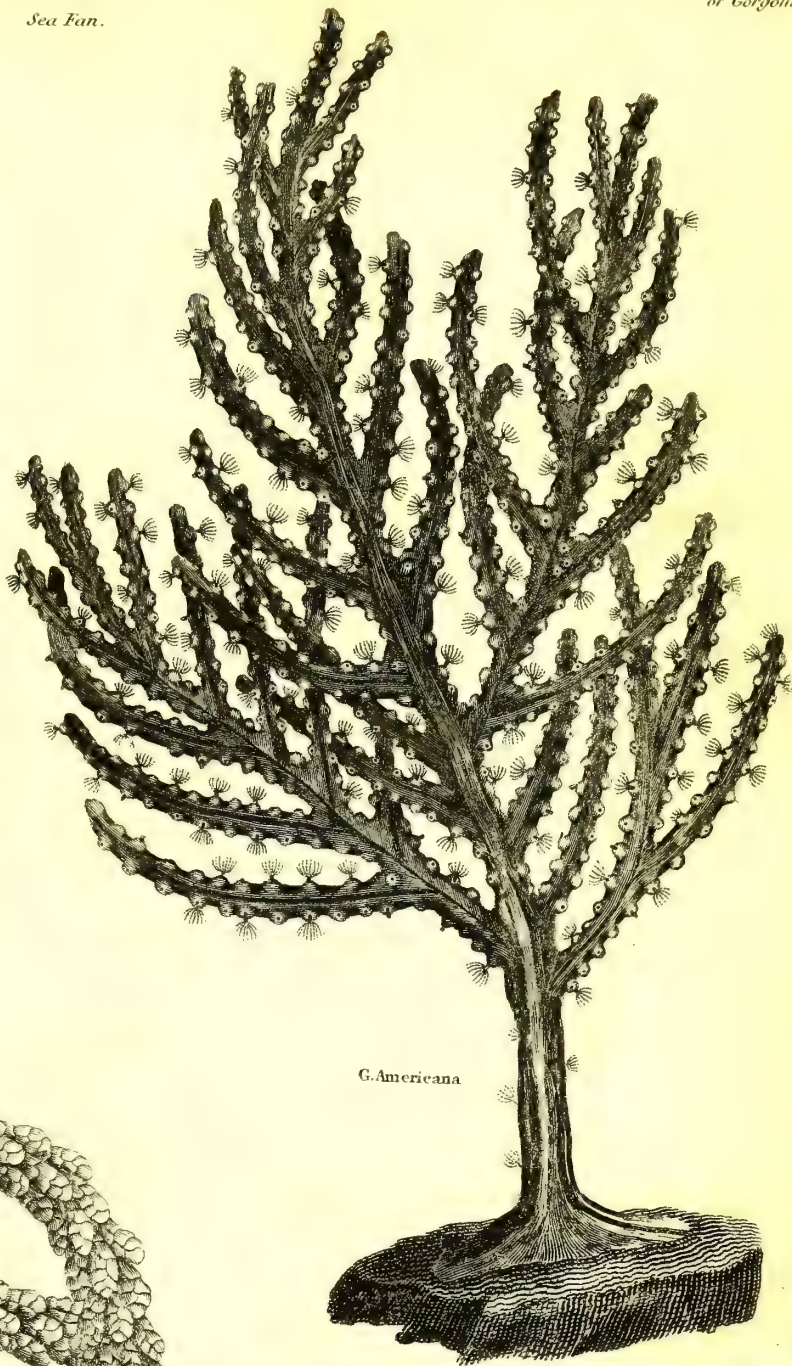
PLATE II  
of Gorgonia.



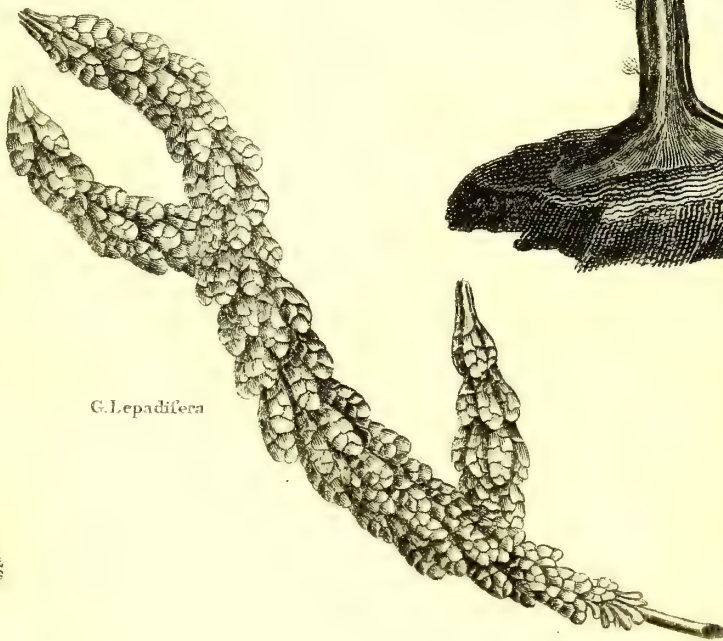
G. Exserta



G. Ceratophyta



G. Americana



G. Lepadifera



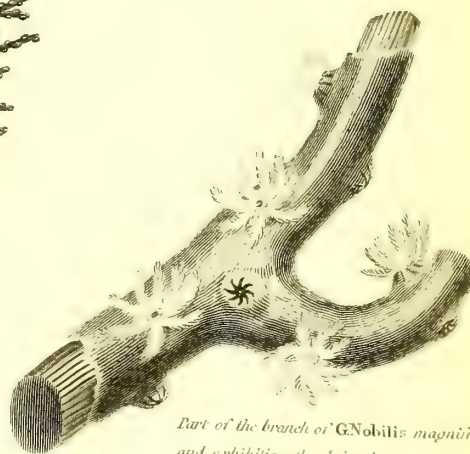
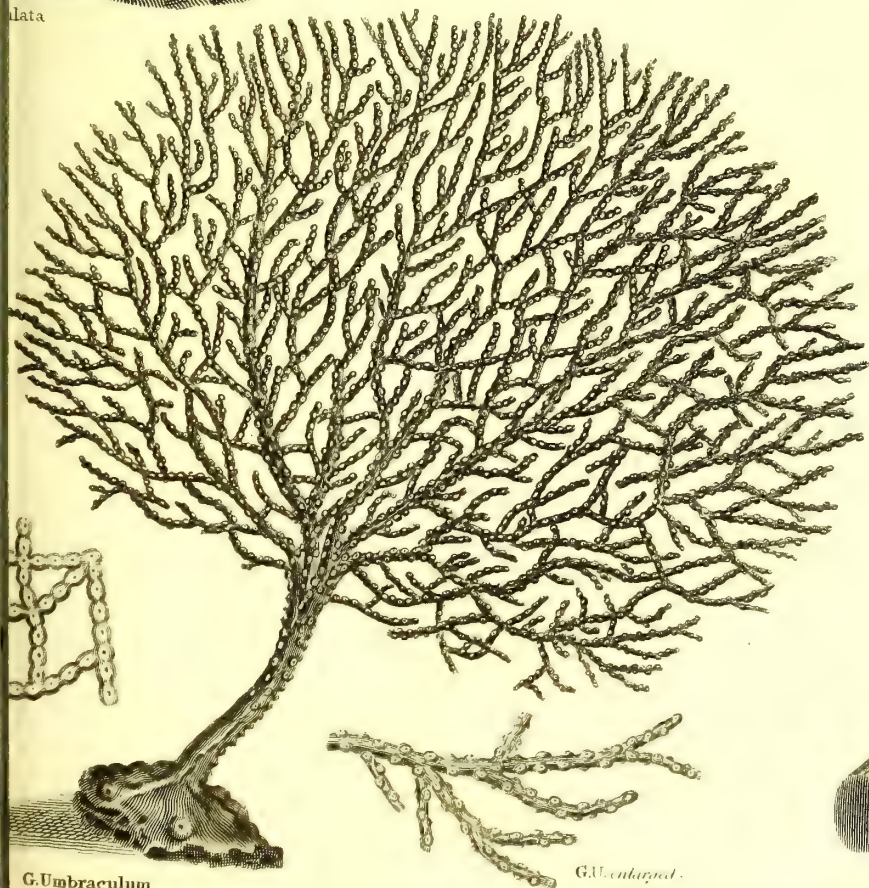
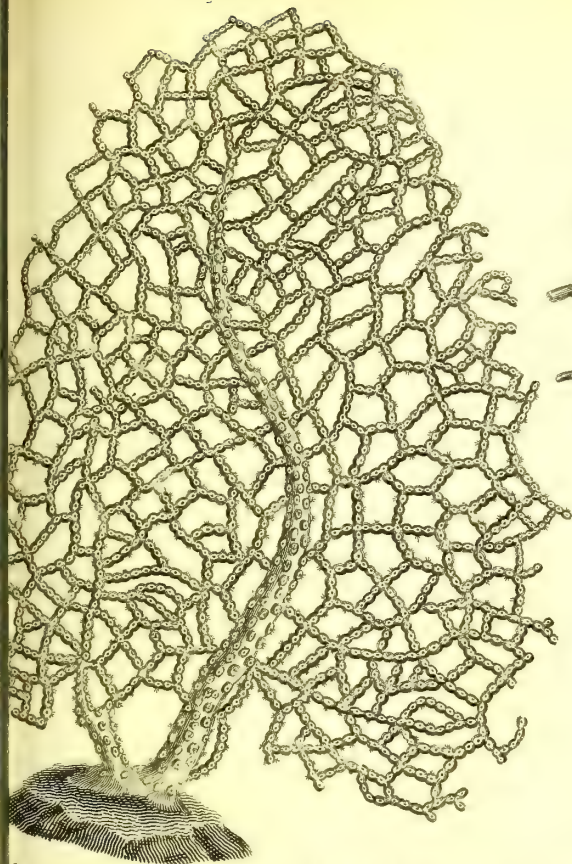


ZOOPHYTES.

GENUS GORGONIA.

Sea Fan.

PLATE I. of  
Gorgonia.



G. Umbraculum

G. U. enlarged.

G. Nobilis

Part of the branch of G. Nobilis magnified  
and exhibiting the Animals



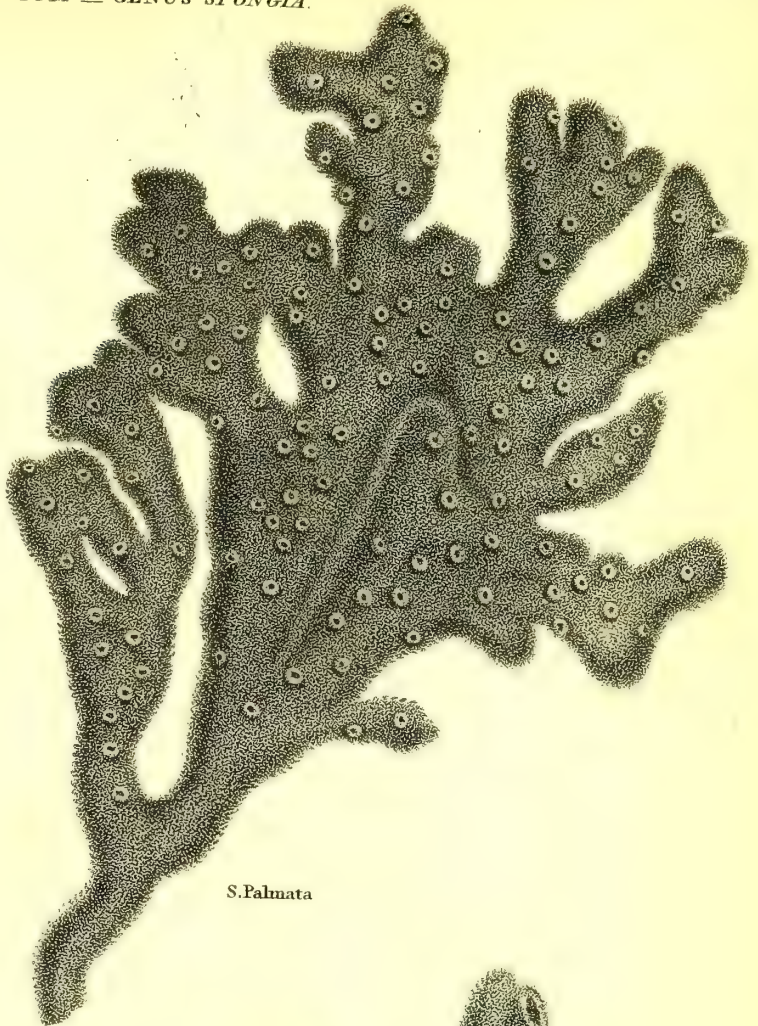


ZOOPHYTES.  
GENUS *ALCYONIUM* — GENUS *SPONGIA*.

*S. Protifera*



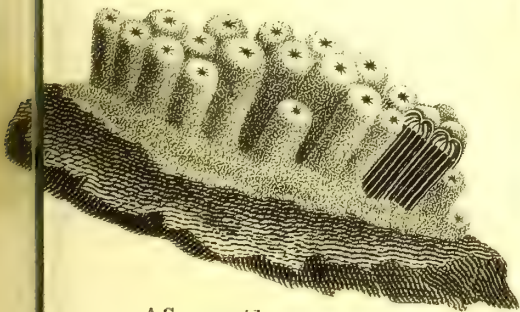
*S. Palmata*



*S. Coronata*



*A. Gorgonoides*

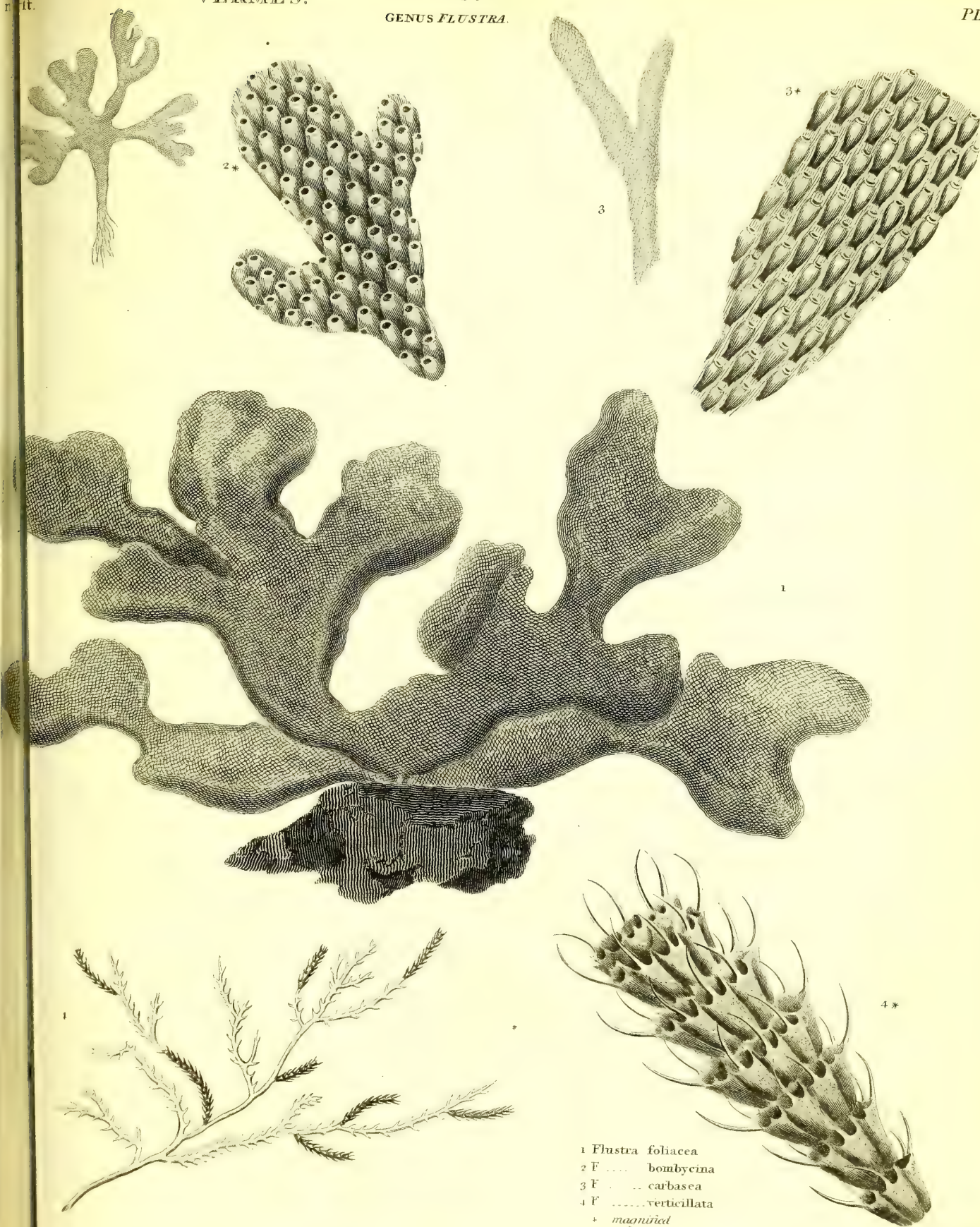


*S. Tubulosa*













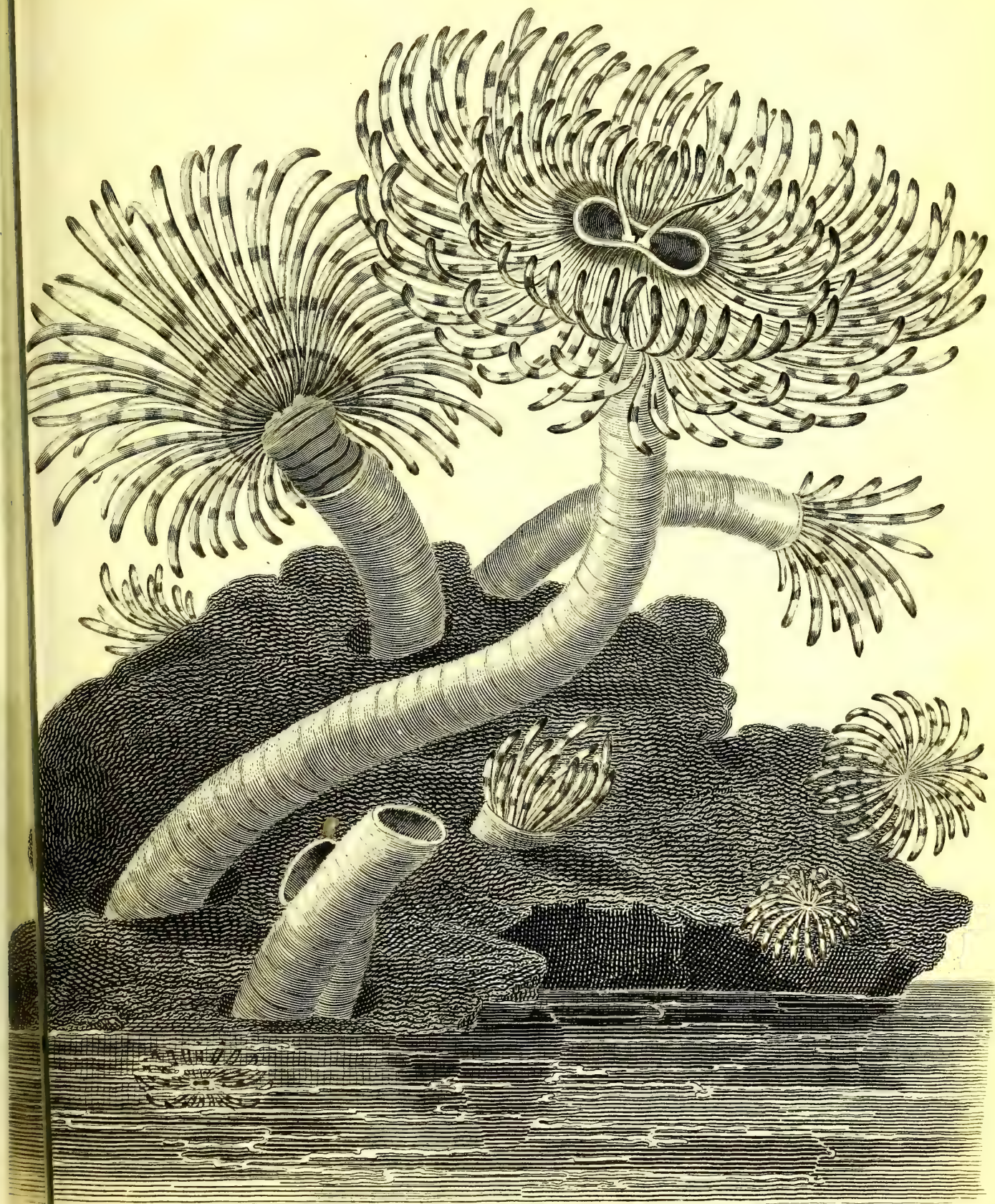


VERMES.

Order Zoophytes.

GENUS TUBULARIA.

PLATE I.



*T. MAGNIFICA.*  
(Magnificent Tubularia)

1. The Animal in its young state - 2. full grown (front view) expanding its tentacula - 3. back view - 4. partially retracted - 5. entirely retracted.

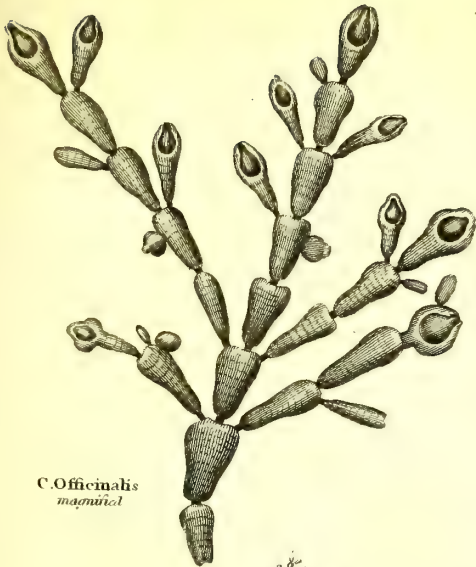
Published as the Act directs, May 1<sup>st</sup> 1809, by Longman, Hurst, Rees & Orme, Paternoster Row



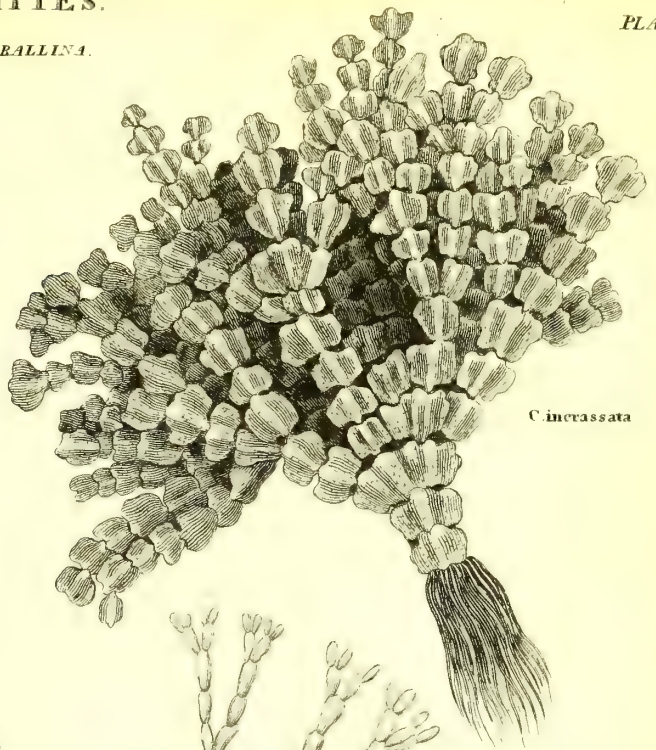


# ZOOPHYTES.

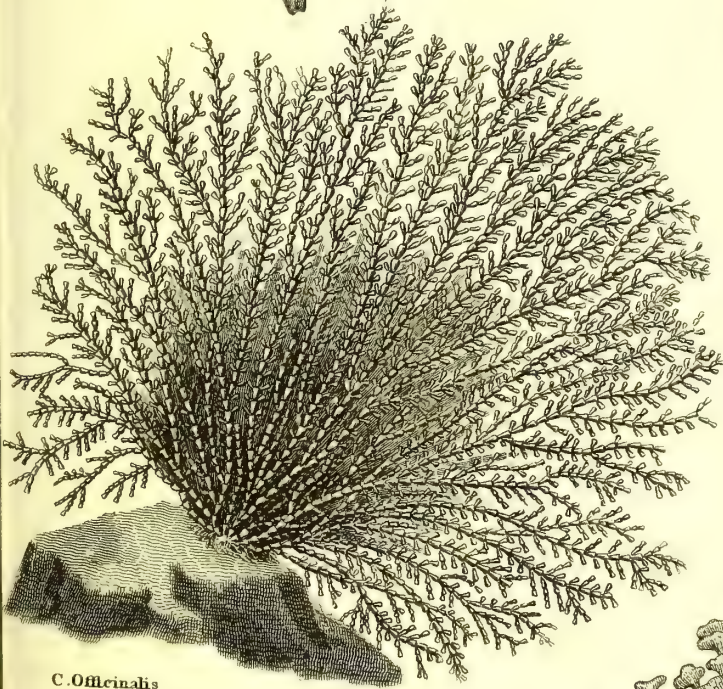
GENUS CORALLINA.



C. Officinalis  
*magnified*



C. incrassata



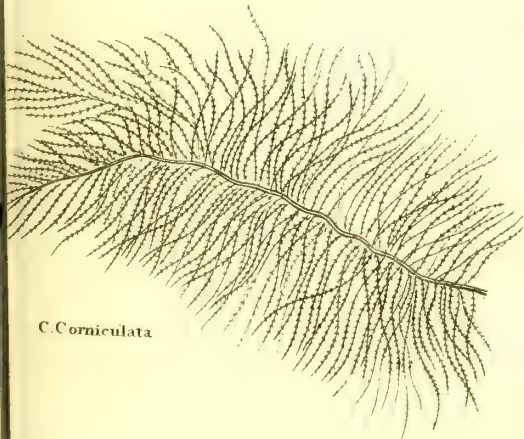
C. Officinalis



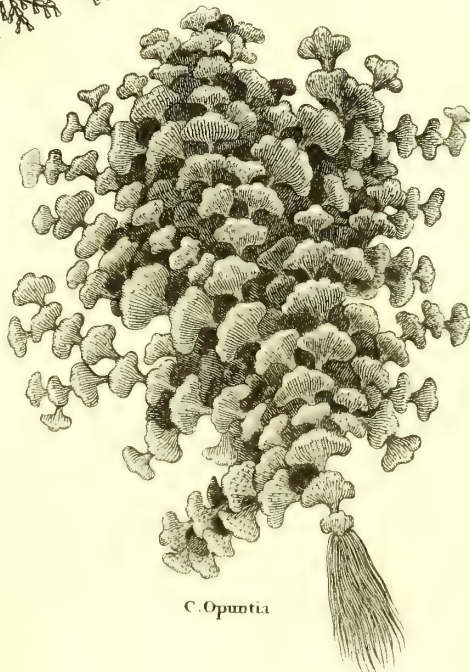
C. Corniculata  
*magnified*



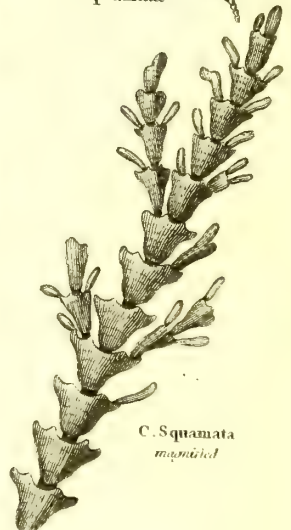
C. Squamata



C. Corniculata



C. Opuntia



C. Squamata  
*magnified*

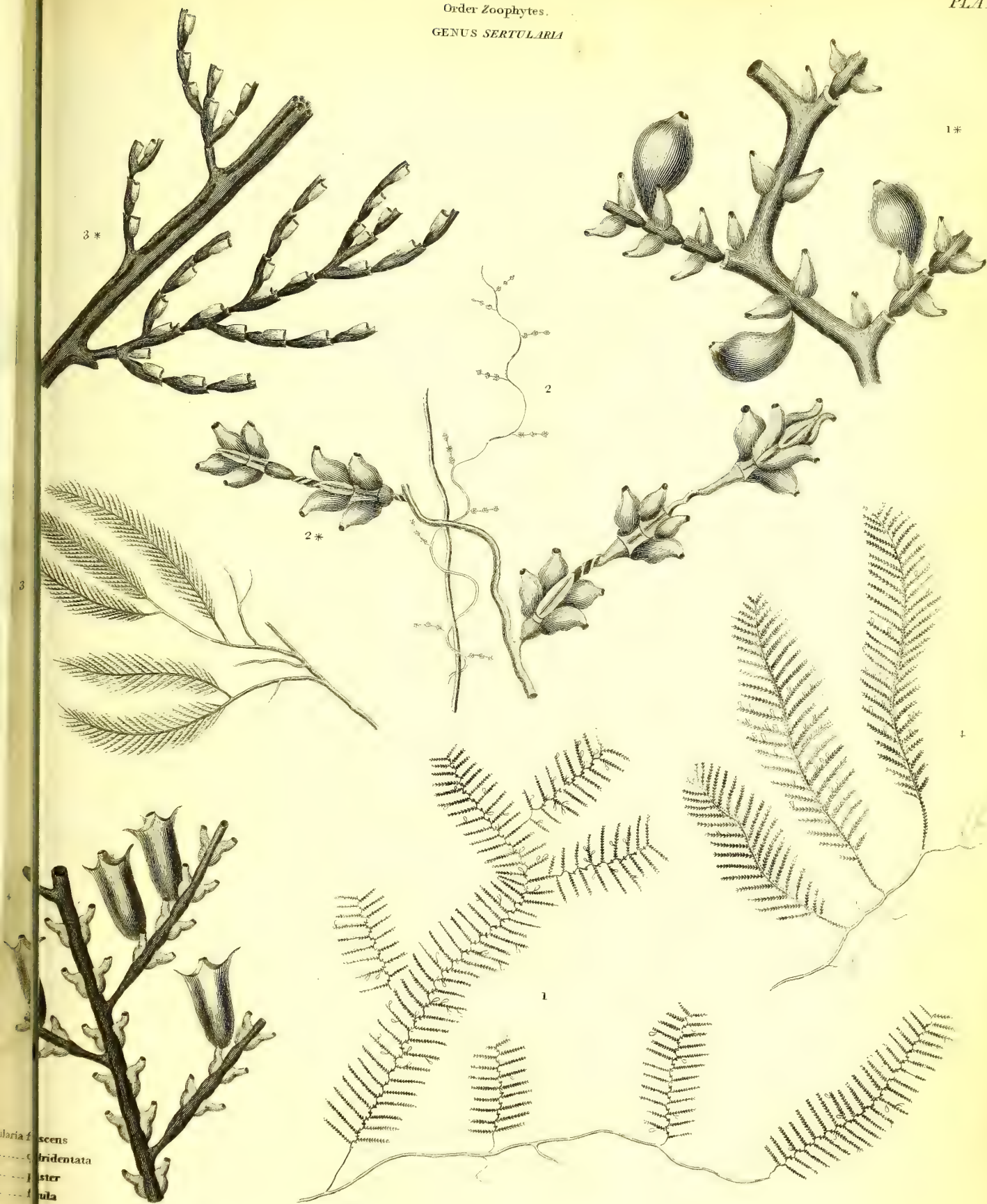




VERMES.

Order Zoophytes.

GENUS SERTULARIA



Sertularia fuscens  
Sertularia tridentata  
Sertularia aster  
Sertularia fucula  
Sertularia magnifica





VERMES.  
Order Zoophytes.  
Genus *Hydra*.

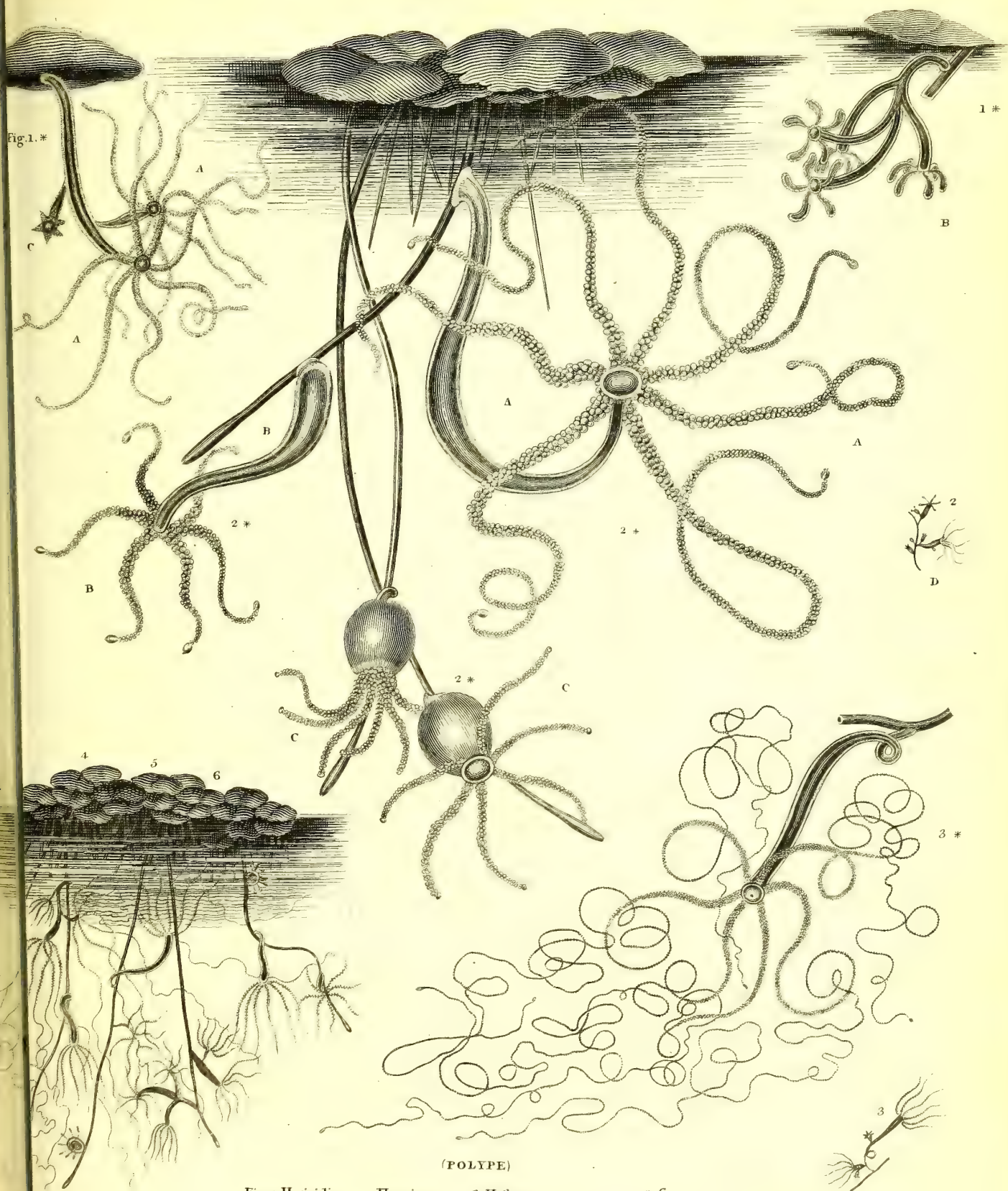


Fig. 1. *H. viridis* 2. *H. grisea* 3. *H. fusca* 4. 5. 6  
Green P. Grey P. Brown P. Clusters of the three species, nat. size.

\* magnified. A. extended Body & tentacula - B. subretracted - C. contracted - D. young.

Published as the Act directs, March 1. 1814. by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

Milton sculp.





# ANIMALCULES.

## CLASS. VERMES.

### Order. Infusoria.

#### GENUS. I. BRACHIONUS.



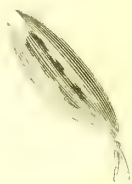
Urceolaris



Striatus



Tripus



Uncinnatus



Quadridentatus

#### G. II. VORTICELLA.



Anastatica



Polypina



Anastatica



Pyxaria



Umbellaria



Digitalis



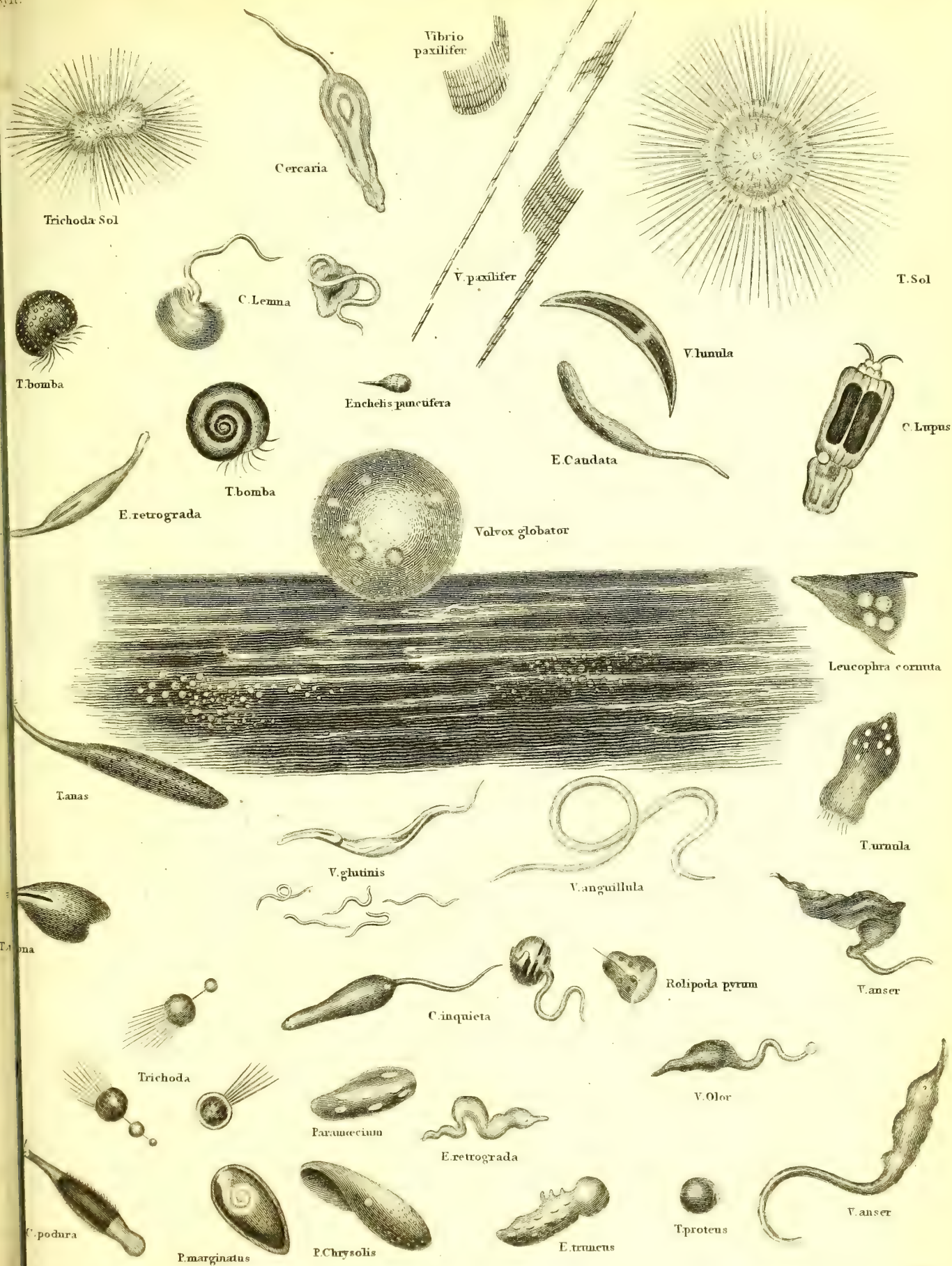
Opercularia



Nebulifera













4

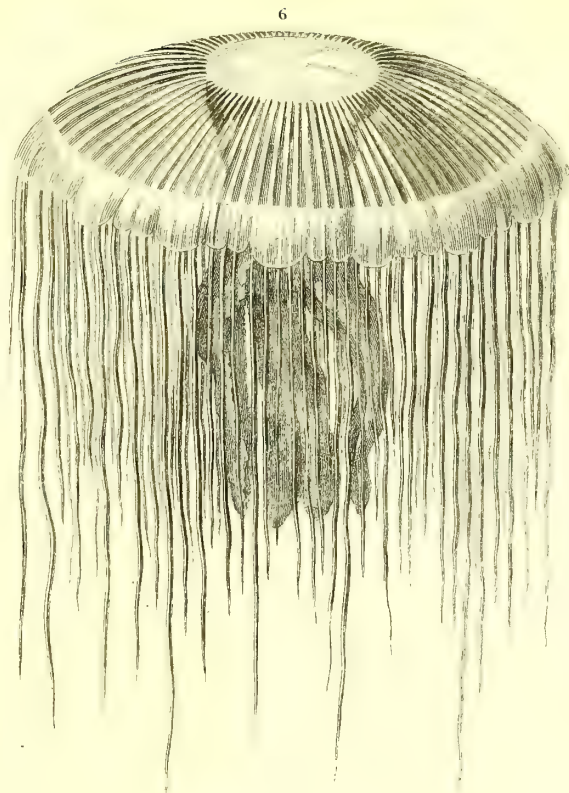


Fig. 9

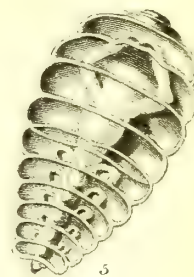


13

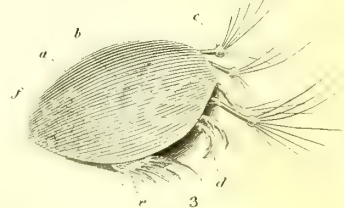
12



6



5



3



8

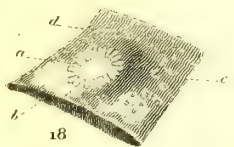
10



11



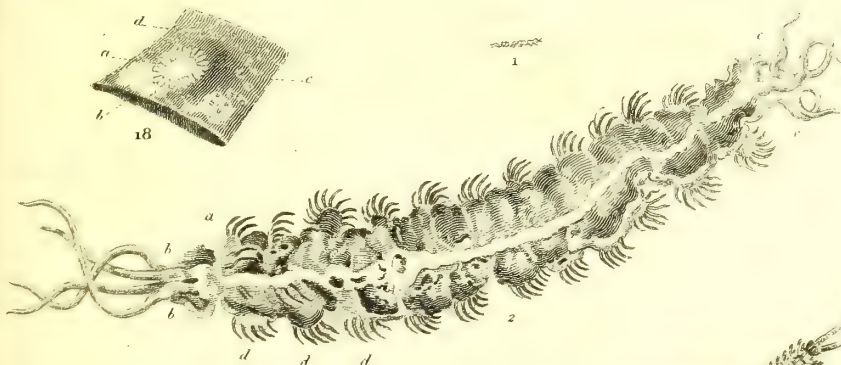
17



18



1



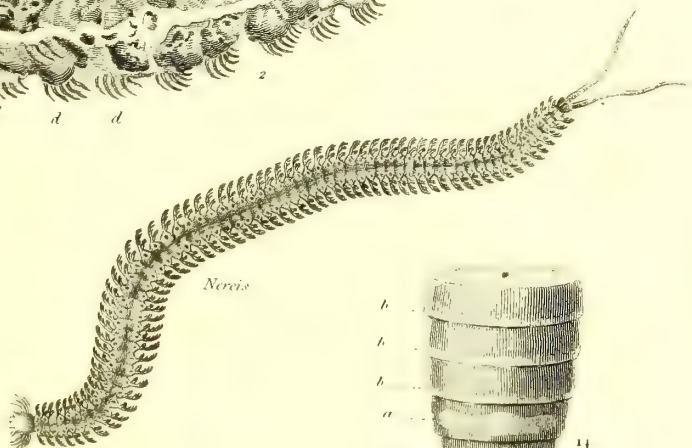
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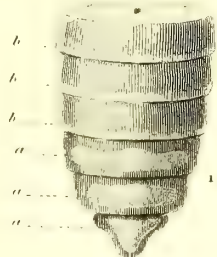
7



19



Nereis



14



15



16





Classes.



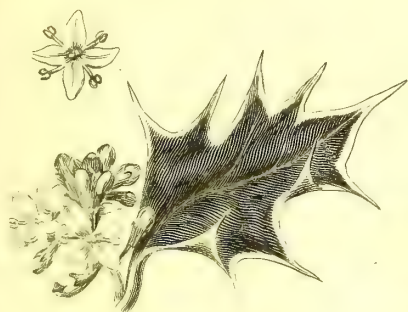
MONANDRIA



DIANDRIA



TRIANDRIA



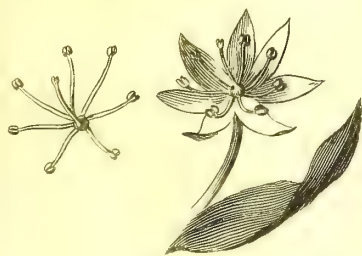
TETRANDRIA



PENTANDRIA



HEXANDRIA



HEPTANDRIA



OCTANDRIA



ENNEANDRIA



DECANDRIA



DODECANDRIA



ICOSANDRIA

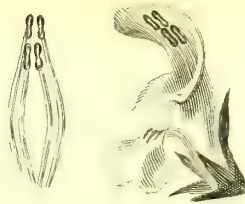




Classes.



POLYANDRIA



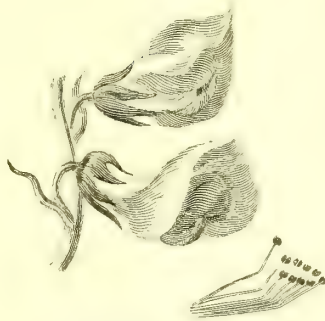
DIDYNAMIA



TETRADYNAMIA



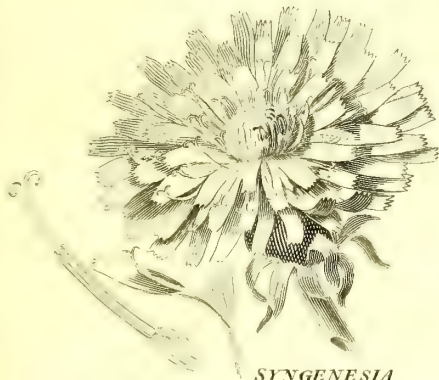
MONADELPHIA



DIADELPHIA



POLYADELPHIA



SYNGENESIA



GYNANDRIA



MONOECIA



DIOECIA



POLYGAMIA

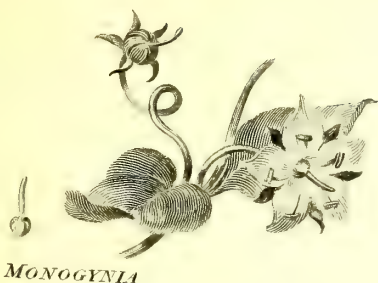


CRYPTOGAMIA





Orders.



MONOGYNIA



DIGYNIA



TRIGYNIA



TETRAGYNIA



PENTAGYNIA



HEXAGYNIA



HEPTAGYNIA



DECAGYNIA



DODECAGYNIA



POLYGAMIA



GYMNOSPERMIA



ANGIOSPERMIA





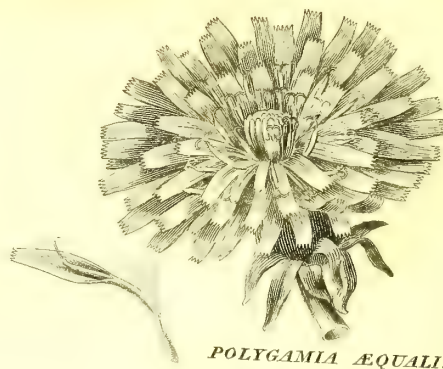
Orders.



SILICULOSA



SILIQUOSA



POLYGAMIA AQUALIS



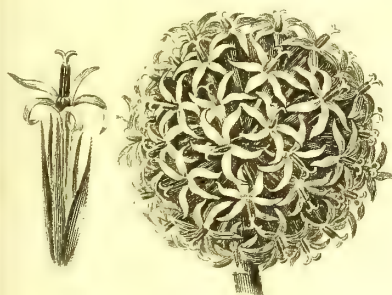
POLA SUPERFLUA



POLA NECESSARIA



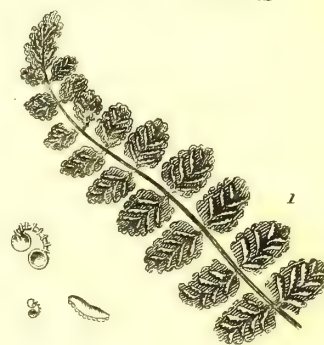
POLA FRUSTRINEA



POLA SEGREGATA



TRIOECIA



FILICES



MUSCI



ALGAE



HEPATICE



FUNGI

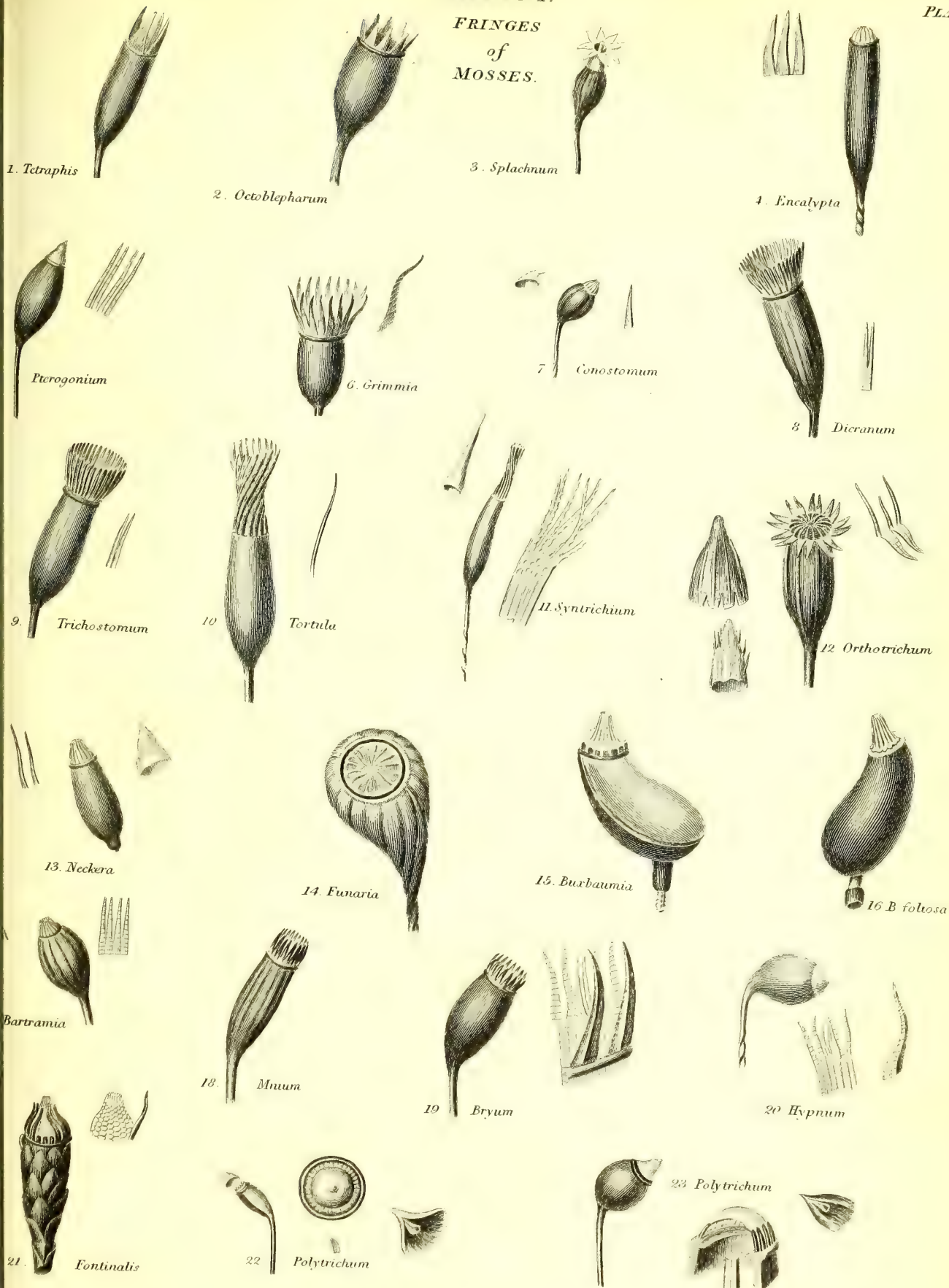






BOTANY.

FRINGES  
of  
MOSES.









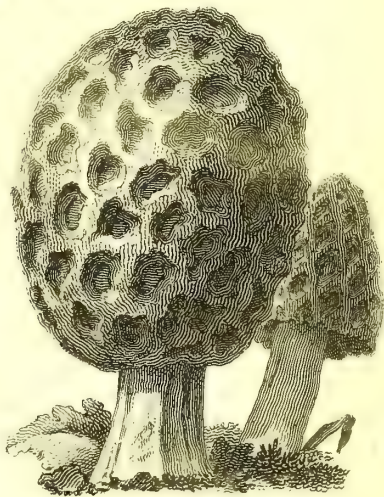
AGARIC



BOLETUS



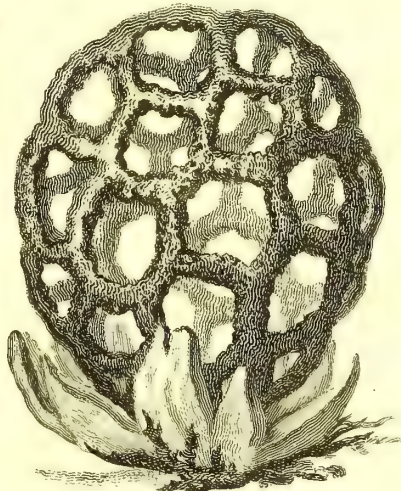
HYDNUM



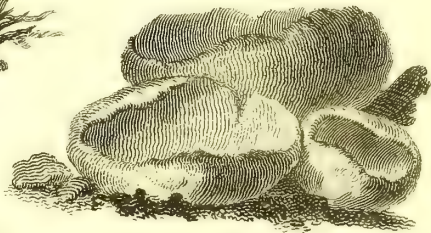
PHALLUS



HELVELLA



CLATHRUS



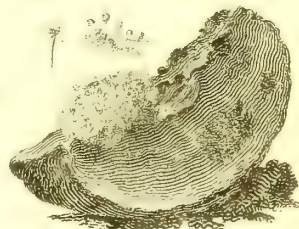
PEZIZA



CLAVARIA



LYCOPERDON



MUCOR





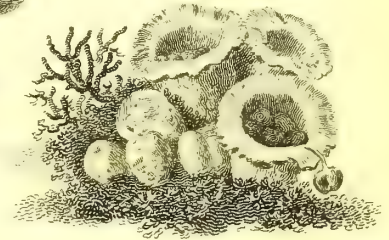
Fungi.



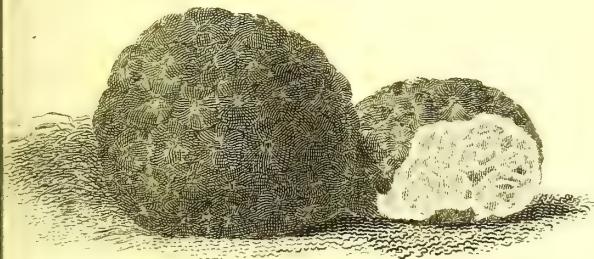
*MERULIUS eburneus.*



*AURICULARIA reflexa.*



*NIDULARIA campanulata.*



*TUBER cibarium.*



*CYATHUS minutus.*



a. *TRICHIA denudata.*  
b. .... *nuda.*



c. *SPHERIA digitata.*  
d. .... *bombardica.*



*UREDIO sagetum.*

*ÆCIDIUM anemonæ.*



*RHIZOMORPHA phosphorea.*



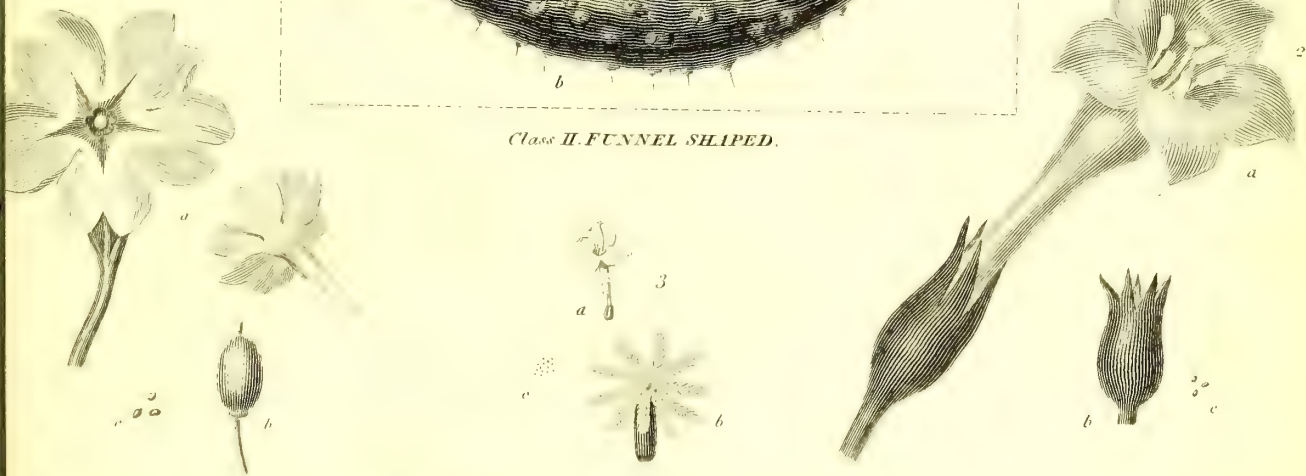


Class I. BELL SHAPED.

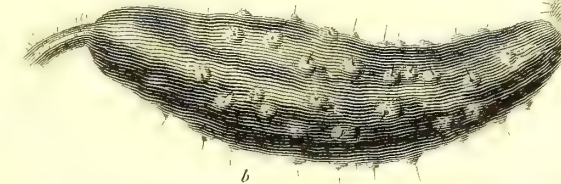
Fig. 1.



Fig. 1.



Class II. FUNNEL SHAPED.







Class II. FUNNEL SHAPED Continued.

Fig. 4.

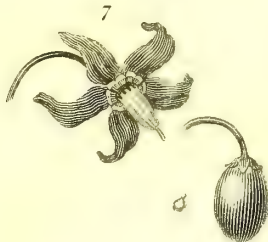


Fig. 1.

Class III. PERSONATE

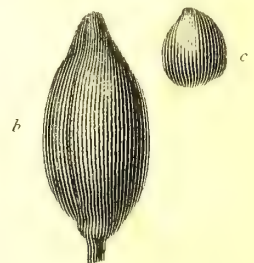
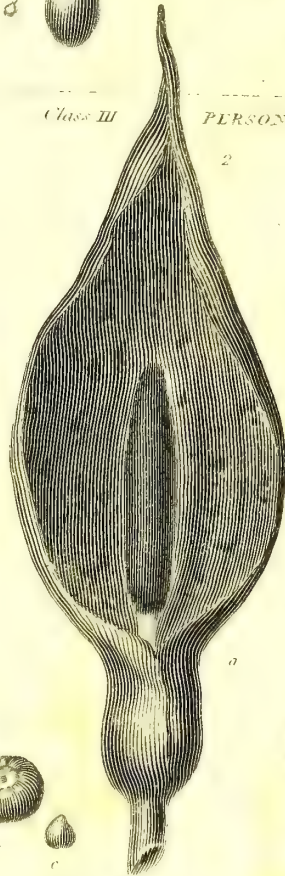


Fig. 1

Class IV. LABIATE

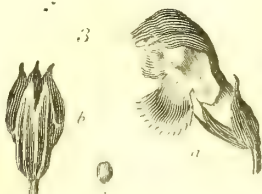
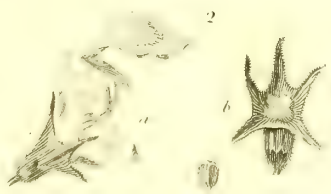






Fig. 1.



Fig. 1.

Class VI. ROSACEOUS.







Class VIII. CARYOPHYLLOUS.

Fig. 1.



Class VII. UMBELLATE.

Fig. 1.



Class IX. LILIACEOUS.

Fig. 1.







reforms

# BOTANY.

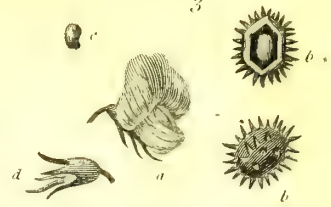
Class X PAPILLONACEOUS.

PLATE V.

Fig. 1.

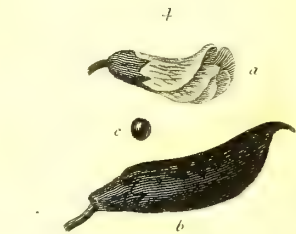
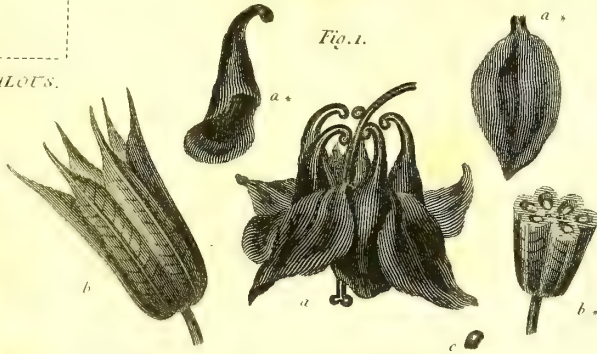
2

3



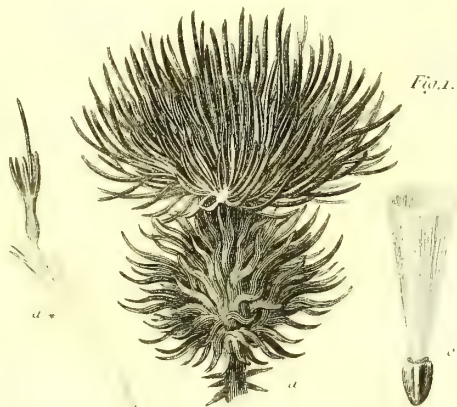
Class XI ANOMILOUS.

Fig. 1.



Class XII FLOSCULOUS.

Fig. 1.



Class XIII SEMULOSCULOS.

Fig. 1.

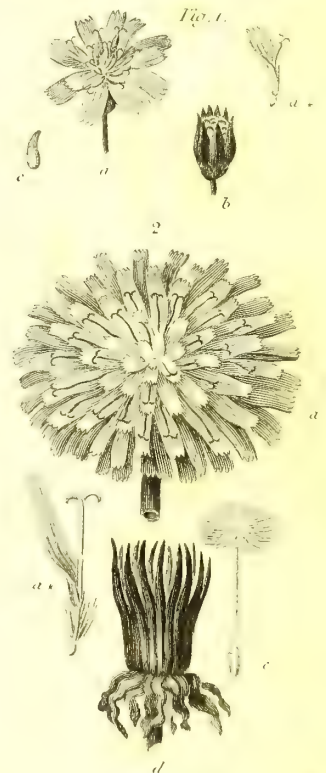
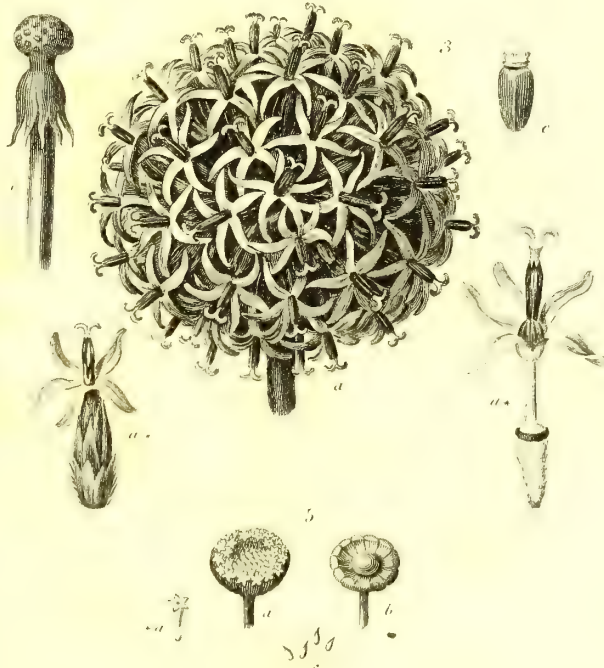
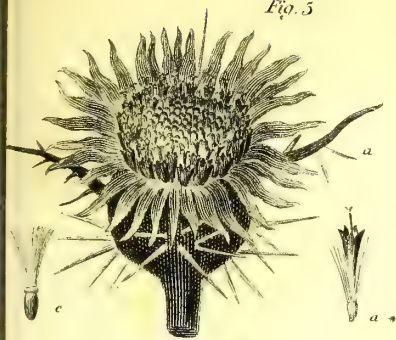






Fig. 5



2



3



1



4



Class XV APETALOUS STAMINIFEROUS.

Fig. 1.

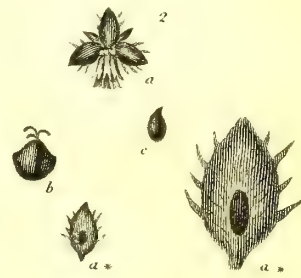
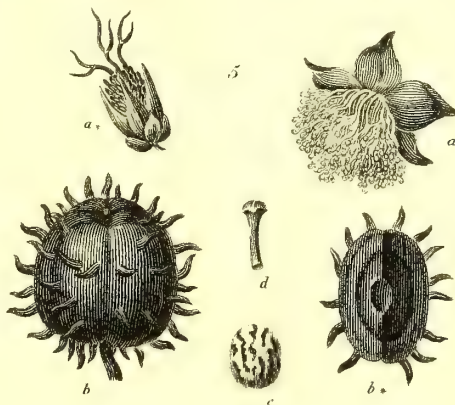
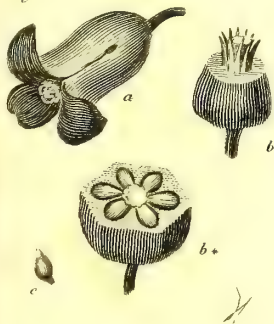
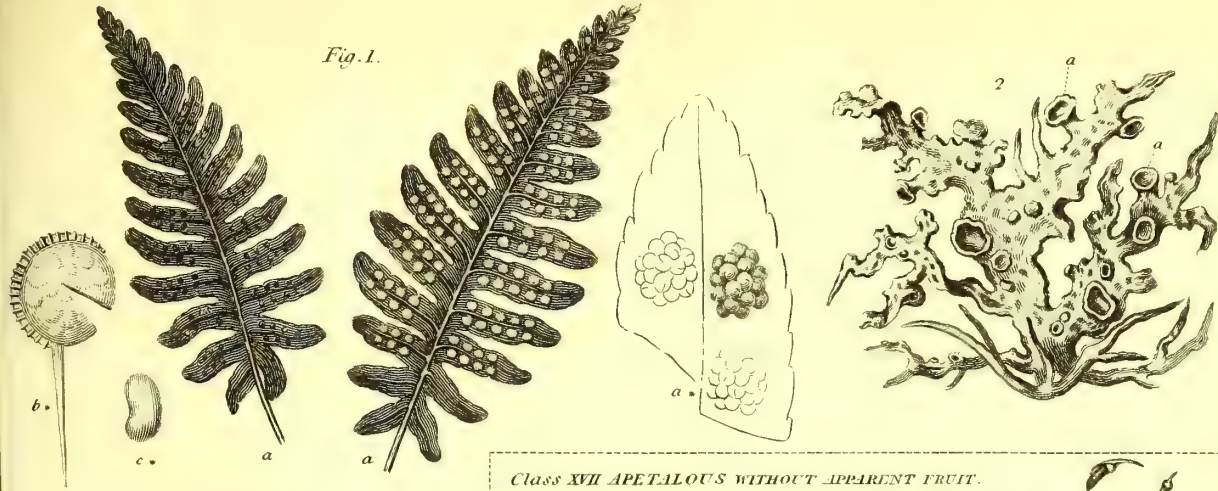


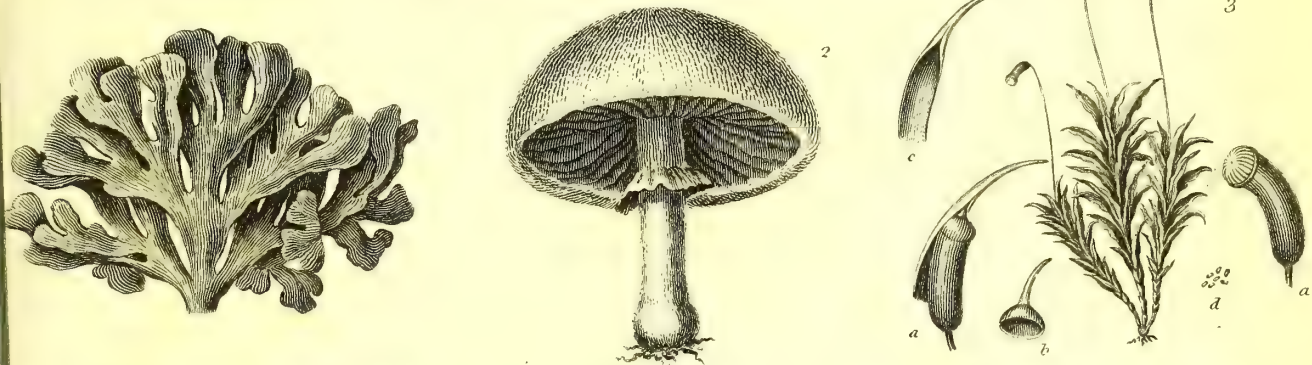




Fig. 1.



Class XVII APETALOUS WITHOUT APPARENT FRUIT.

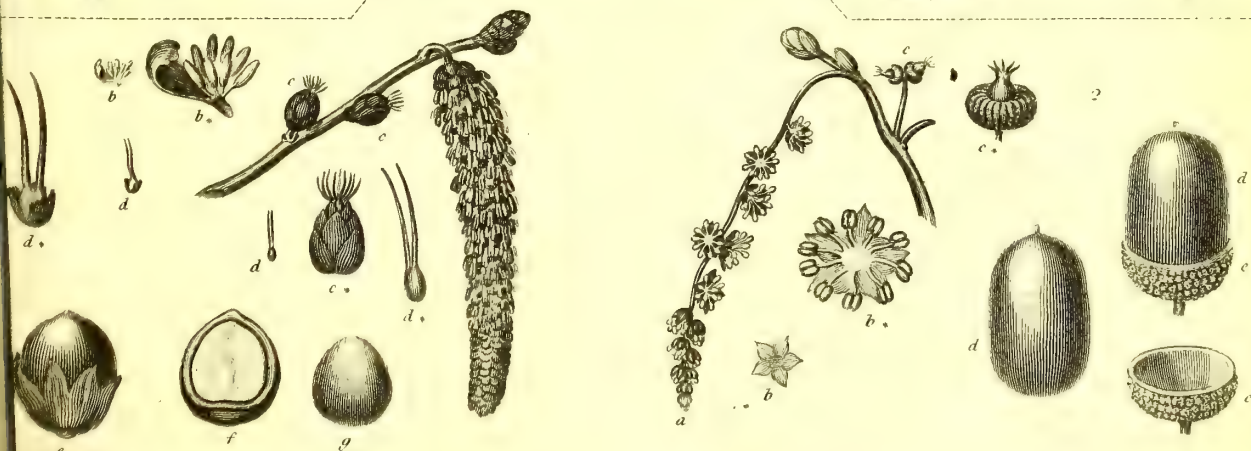


TREES & SHRUBS.

Class XVIII APETALOUS.



Class XIX AMENTACEOUS.







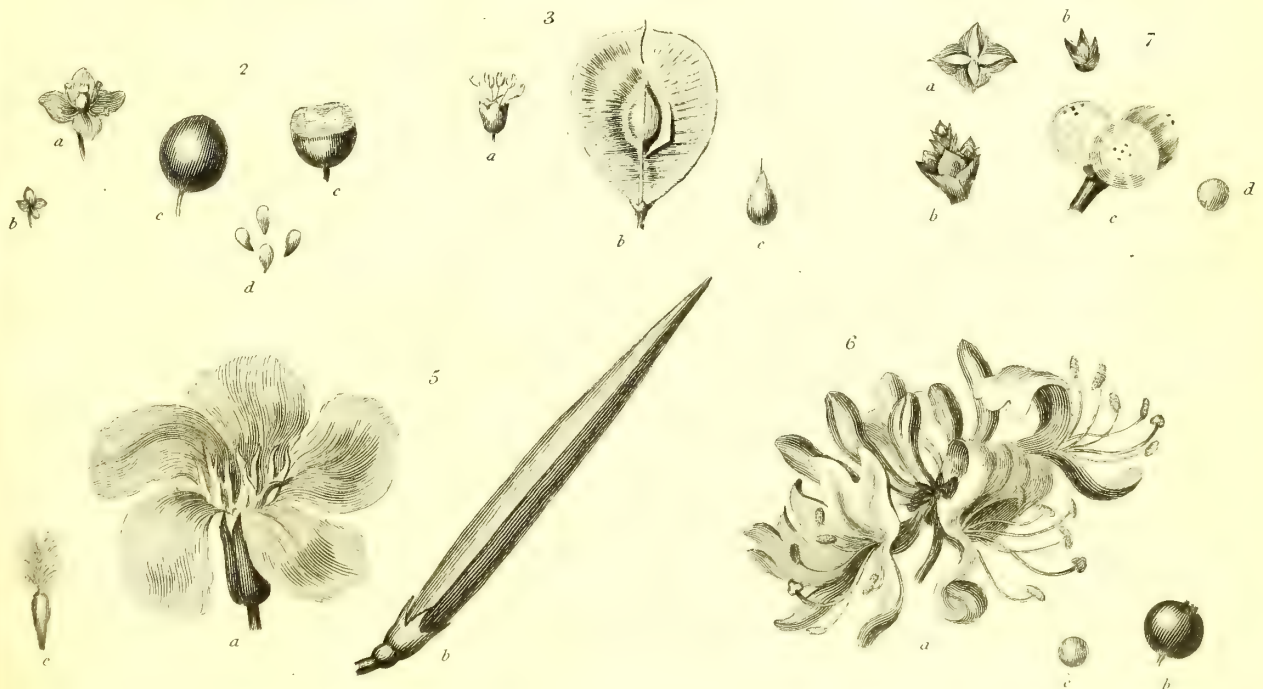
BOTANY.  
TREES and SHRUBS.  
Class XIX. AMENTACEOUS.

PLATE I

Fig. 3.



Class XX MONOPETALOUS.







BOTANY

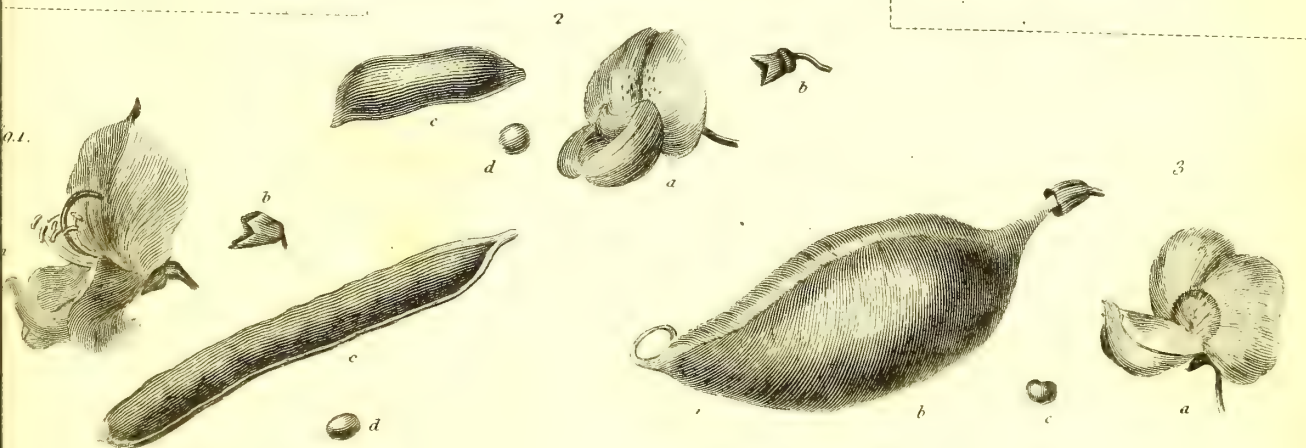
TREES and SHRUBS.

Class XII ROSACEOUS.

Fig. 1.



Class XVII PAPILIONACEOUS.







*Bark.*

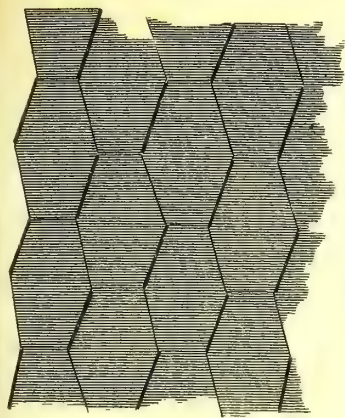


FIG. 2.

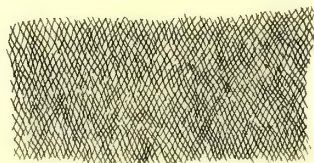


FIG. 11.

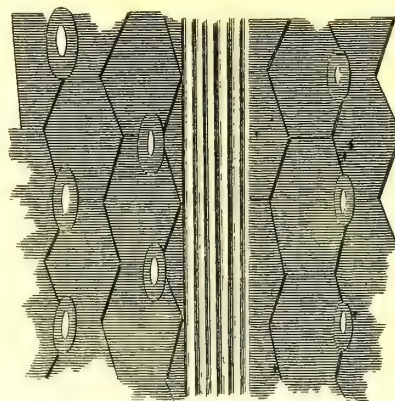


FIG. 3.

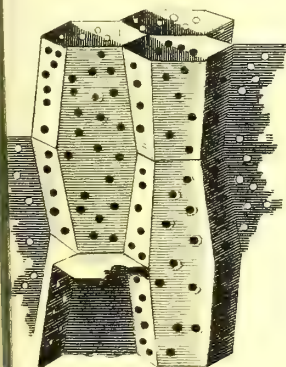


FIG. 5.

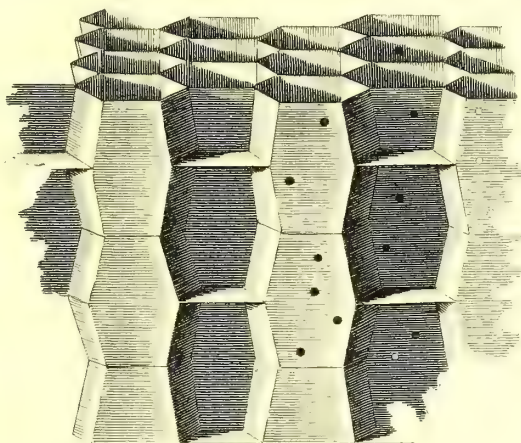


FIG. 4

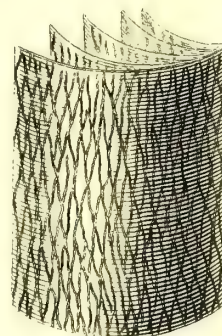


FIG. 7.



FIG. 9.



FIG. 6

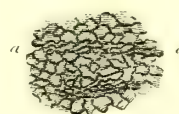


FIG. 1.

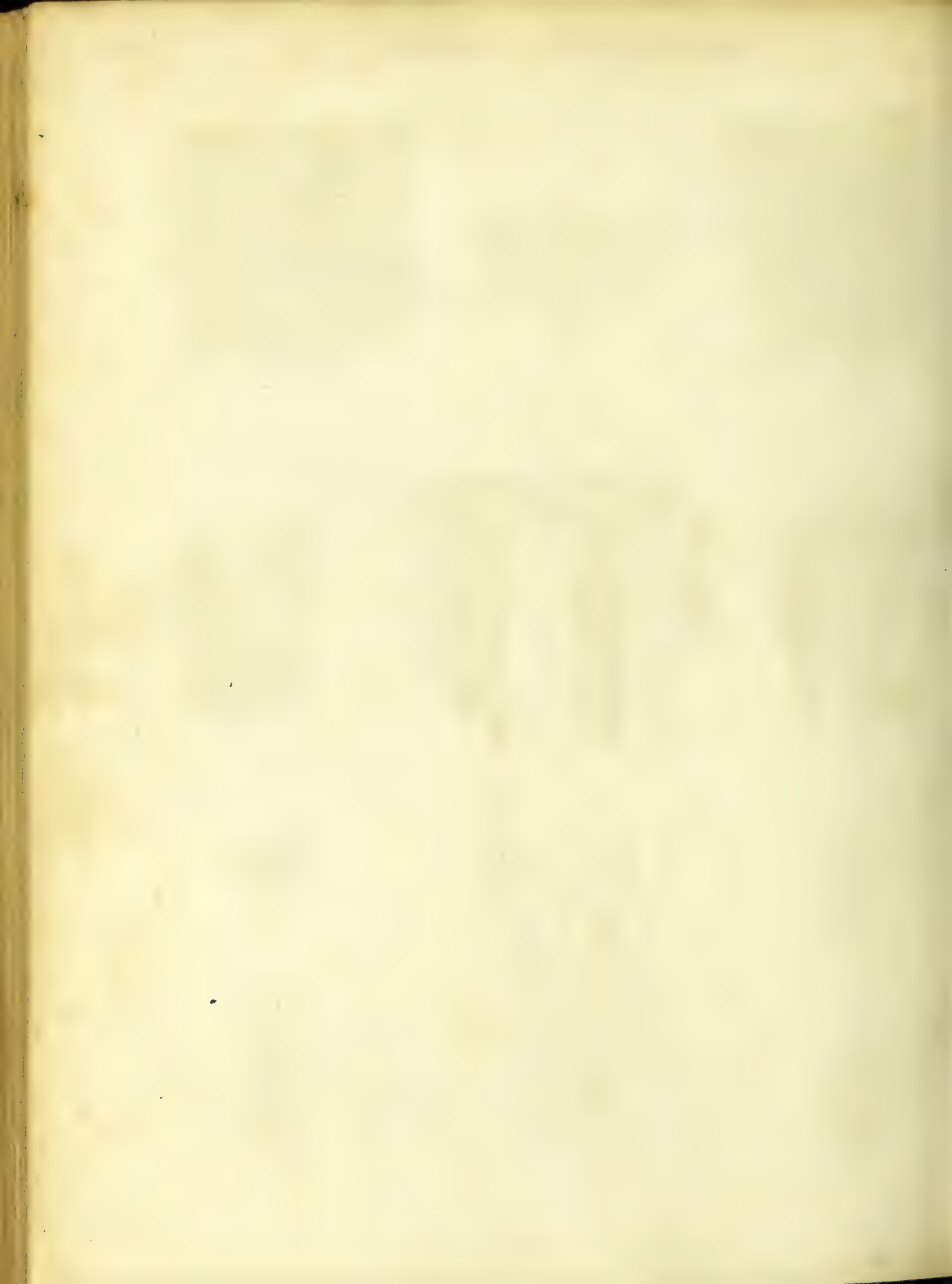


FIG. 10.



FIG. 8.



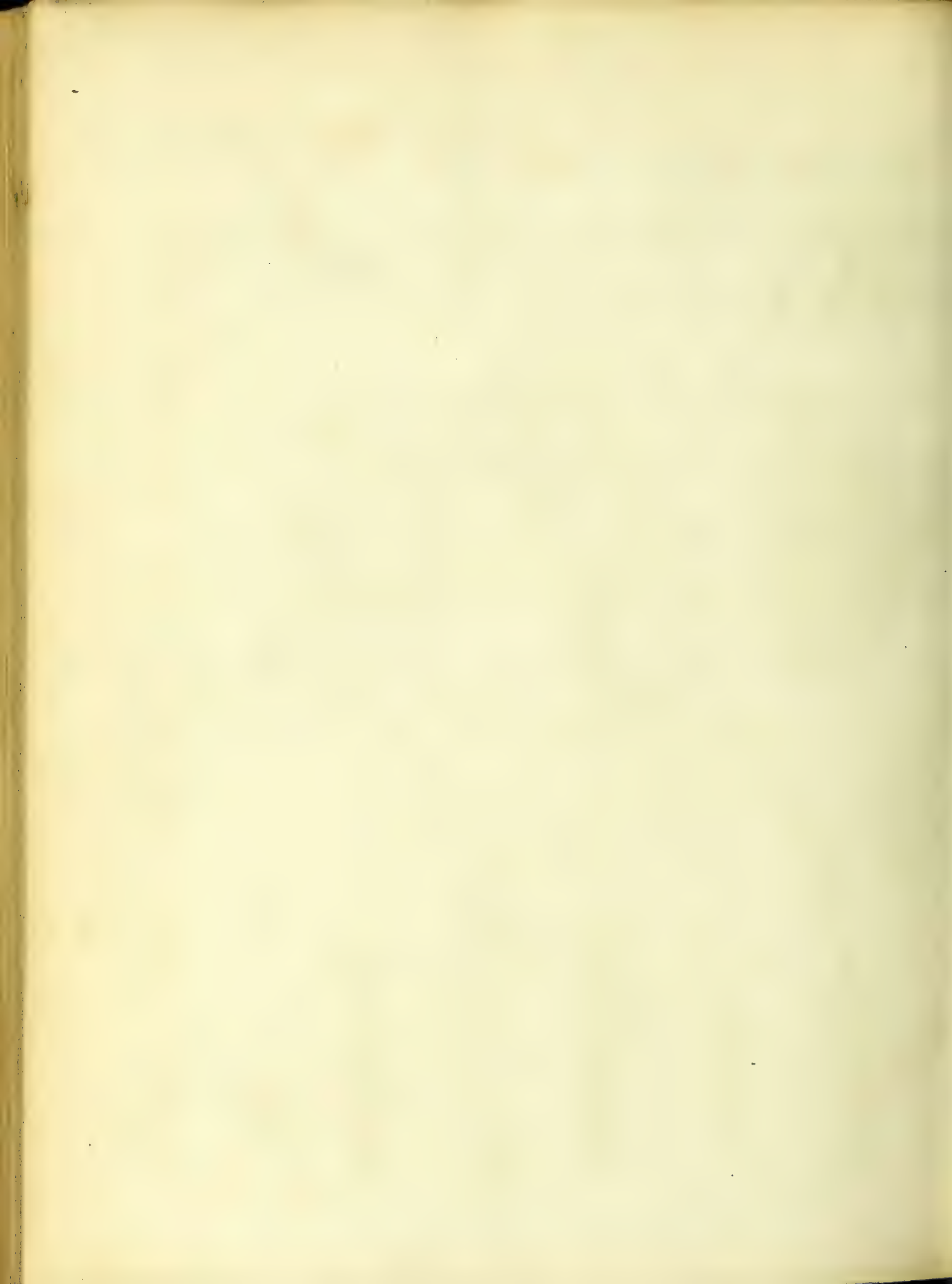


*Branches, Buds, Bulbs.*

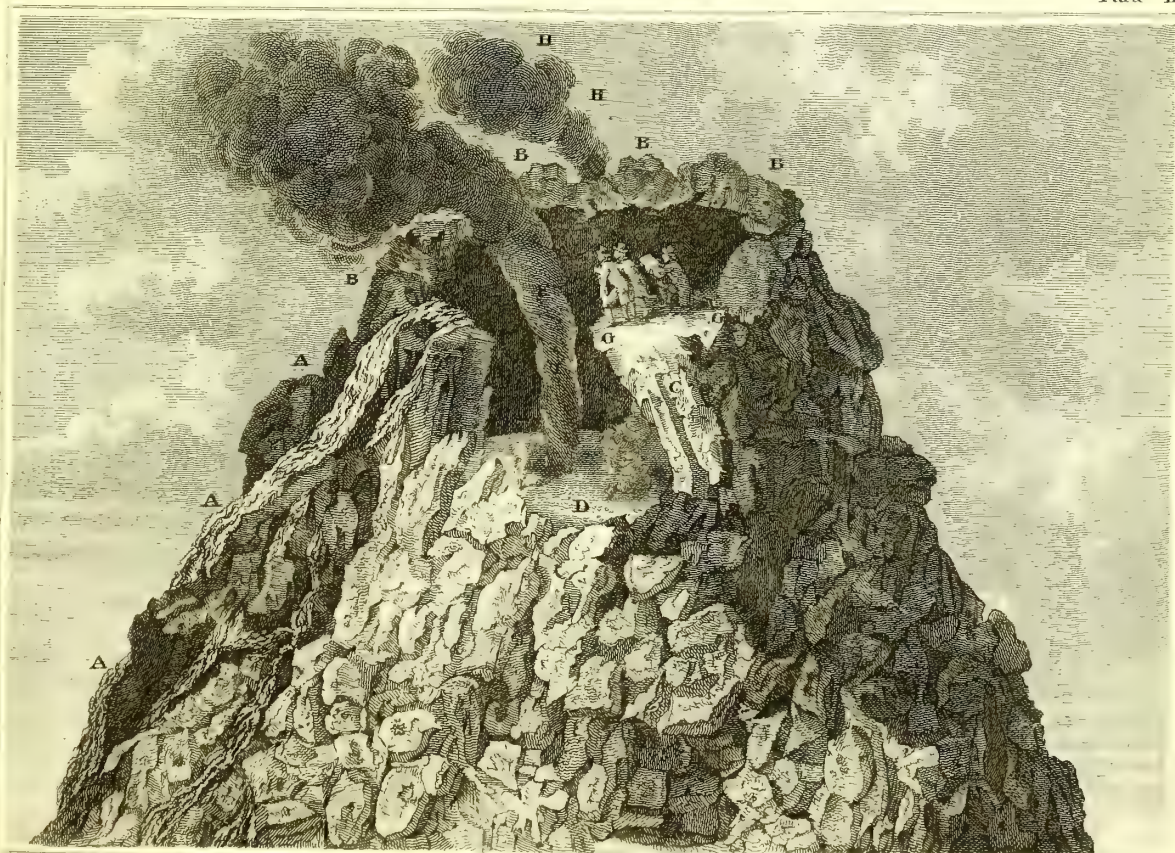
*Fig. 1.*



















*From an original sketch made in the year 1797 by R. Duggan Esq.*

## MOUNT VESUVIUS,

*as seen from the Bay of Naples.*

*Published as the Act directs. Sept. 4. 1802 by Longman & Rees, Paternoster Row.*

*Lowry sculp.*





NATURAL HIST. T. 49. B. N.



THE CRATER OF MOUNT VESUVIUS.

Published as the Act directs. May 1<sup>st</sup> 1802, by Longman & Rees, Paternoster Row

From an original sketch made in the year 1797 by R. Duggo Esq.







[illegible]





Fig. 1.

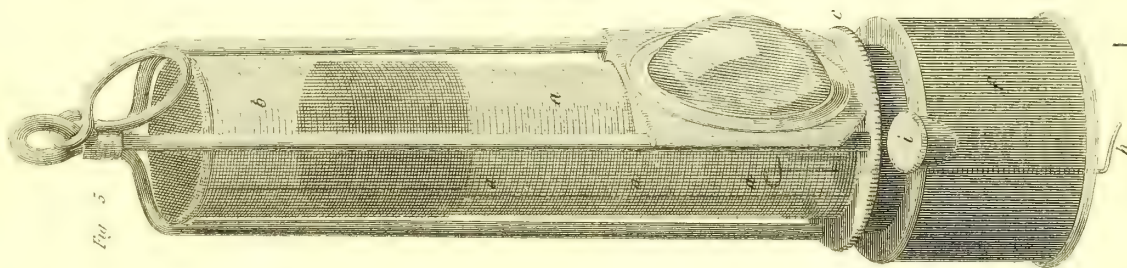
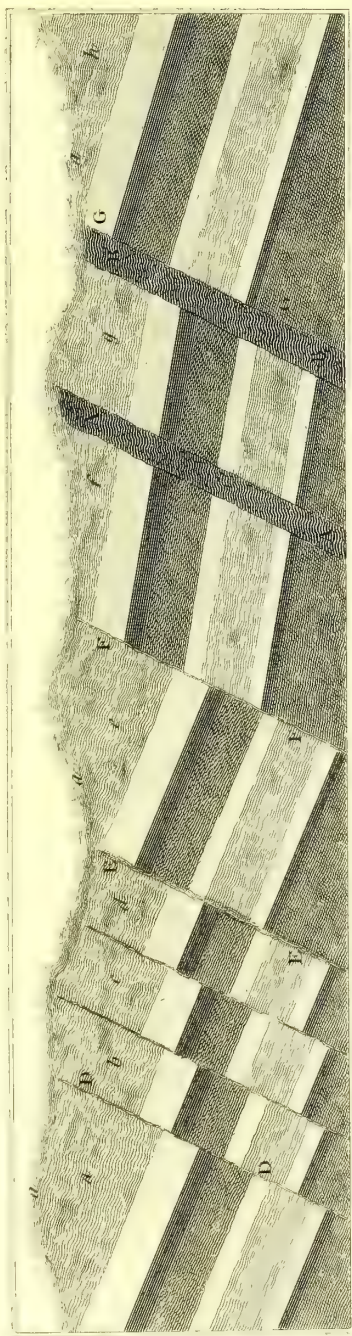


Fig. 5.

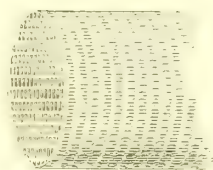
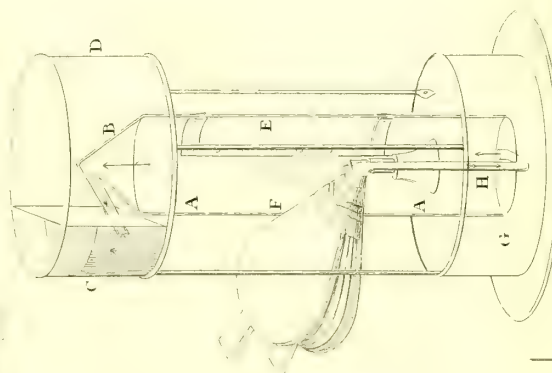


Fig. 6.

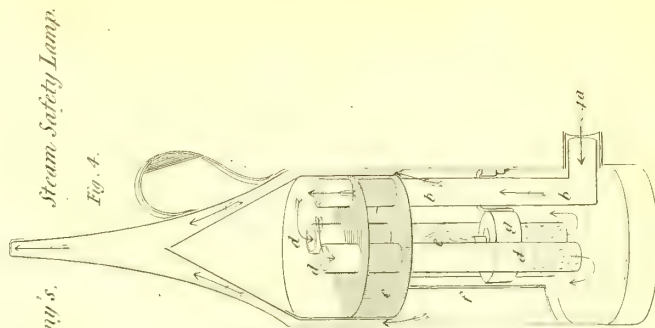
D'Clanny's Safety Lamp.

Fig. 2.



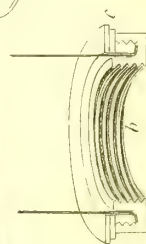
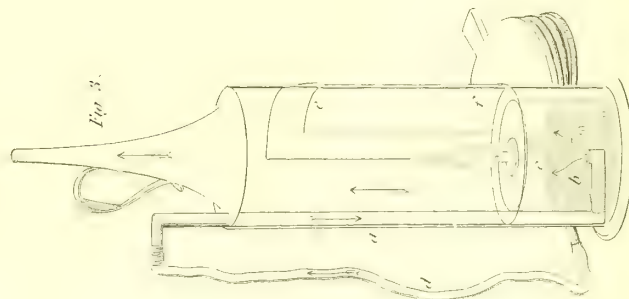
D'Clanny's.

Fig. 4.



Steam Safety Lamp.

Fig. 3.







GEOLOGY

Fig. 2.

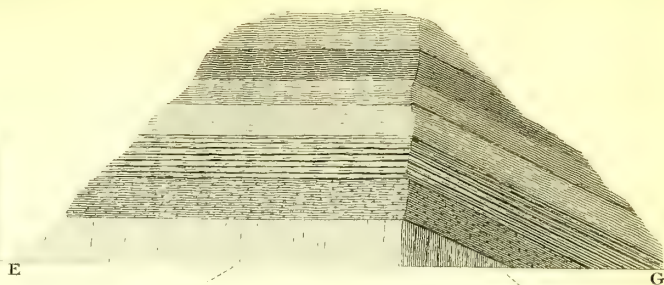


Fig. 1.

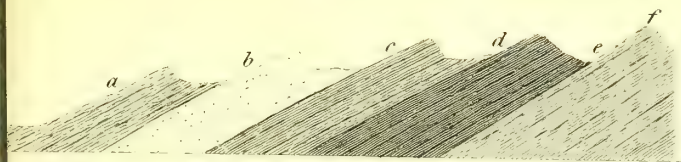


Fig. 3.

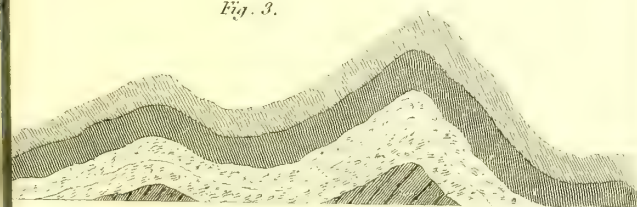


Fig. 4.

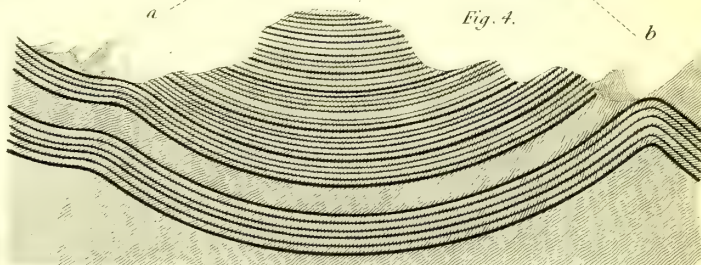


Fig. 5.



Fig. 6.

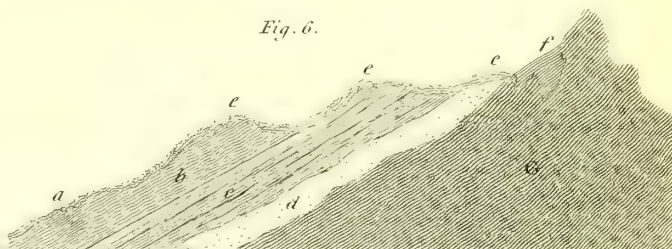


Fig. 8.

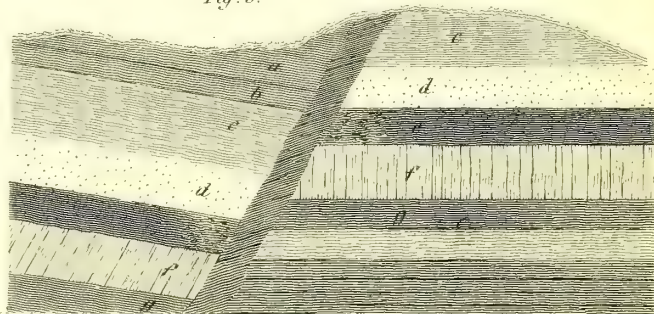
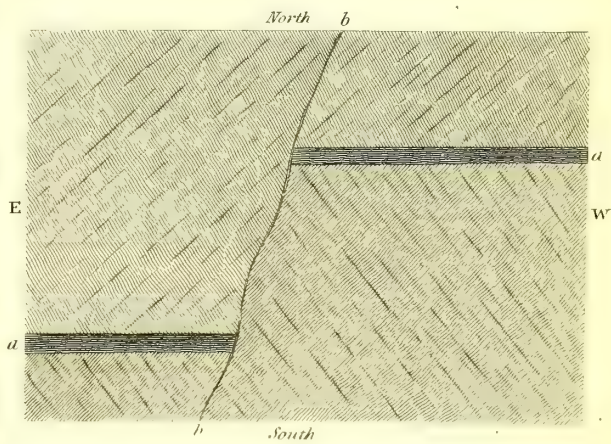
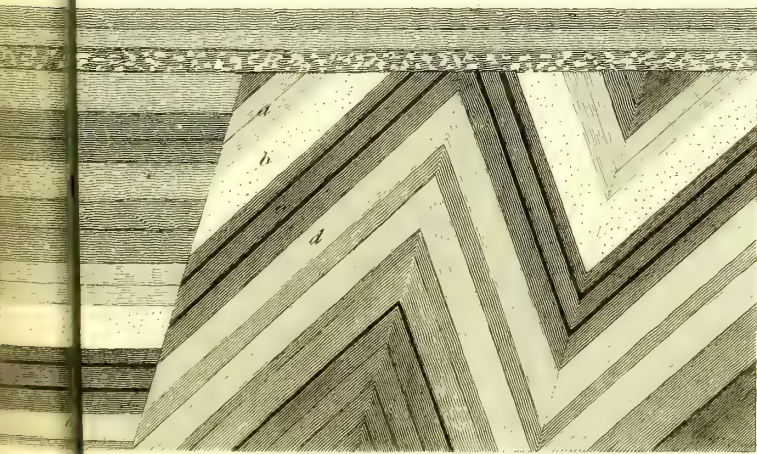
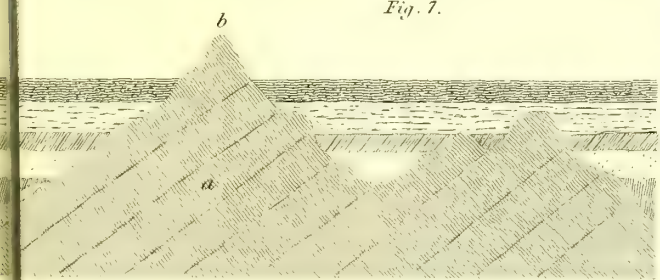


Fig. 7.









*Fig. 2.*

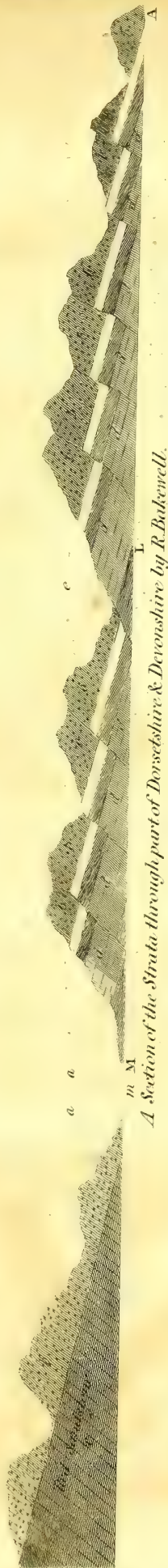


Fig. 3.

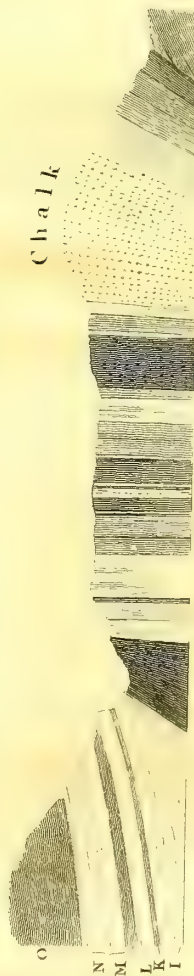
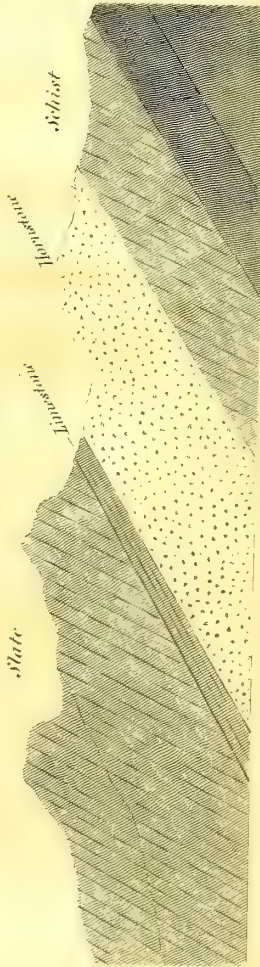


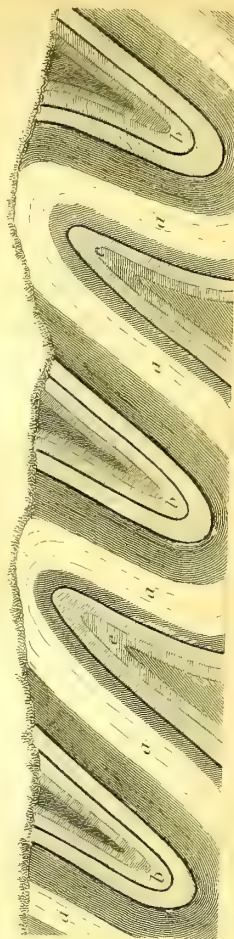
Fig. 1.



Fig. 5.



*Fig. 6.*

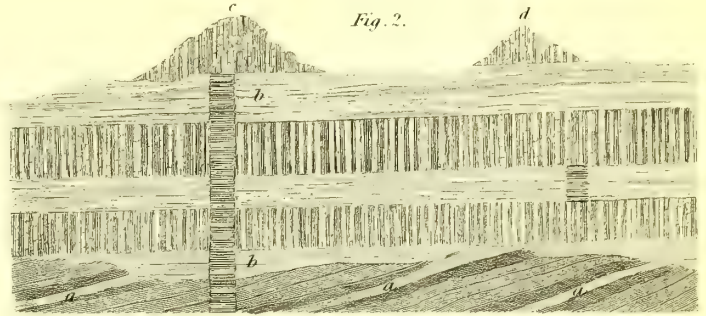




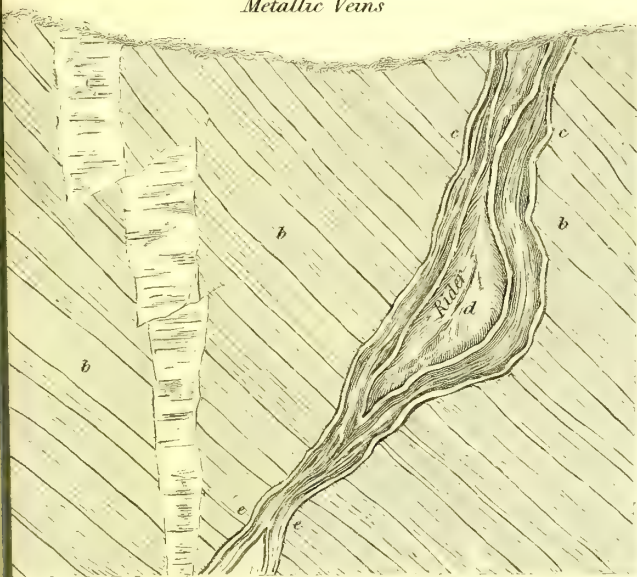


Columnar and amorphous Basalt intersected by Basaltic Dykes

Fig. 2.

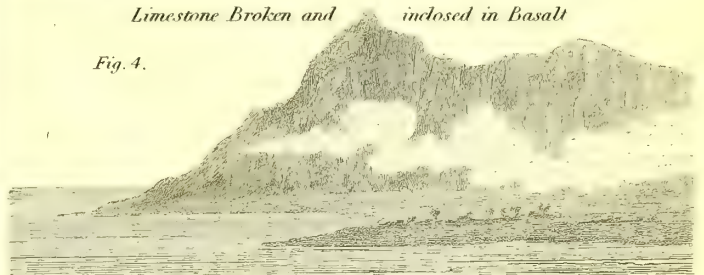


Metallic Veins

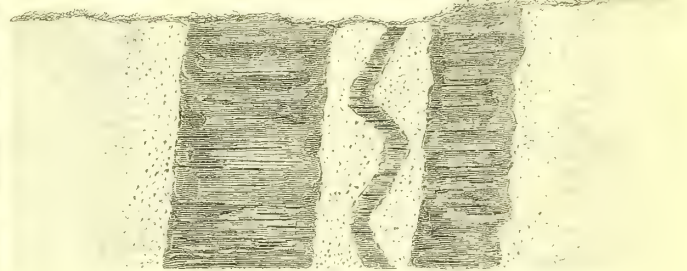


Limestone Broken and inclosed in Basalt

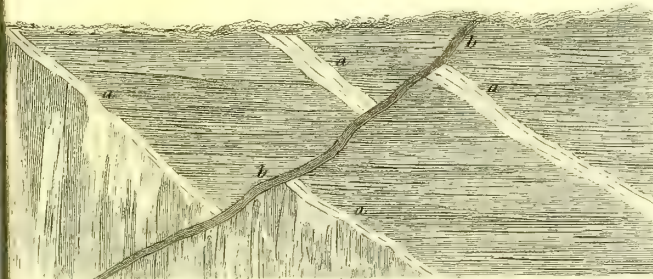
Fig. 4.



Whinstone Dykes or Basaltic Veins passing through

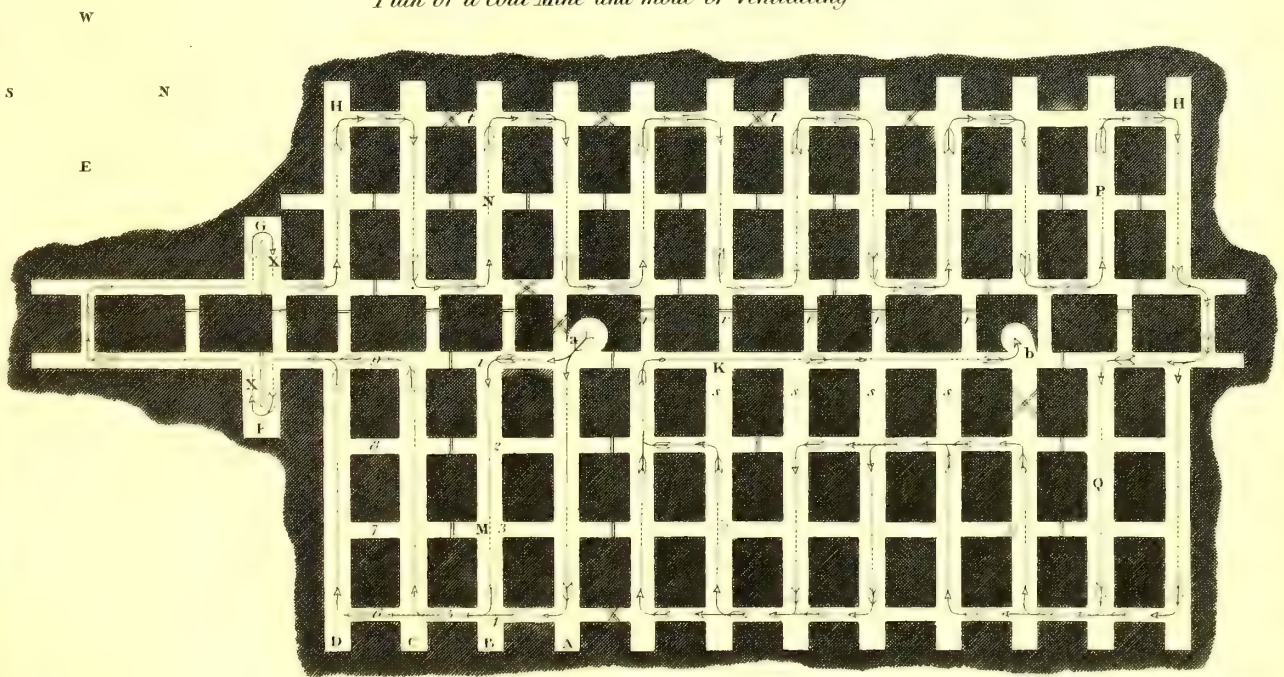


Intersection of Metallic Veins



Chalk and Changing it into Marble

Plan of a Coal Mine and mode of Ventilating



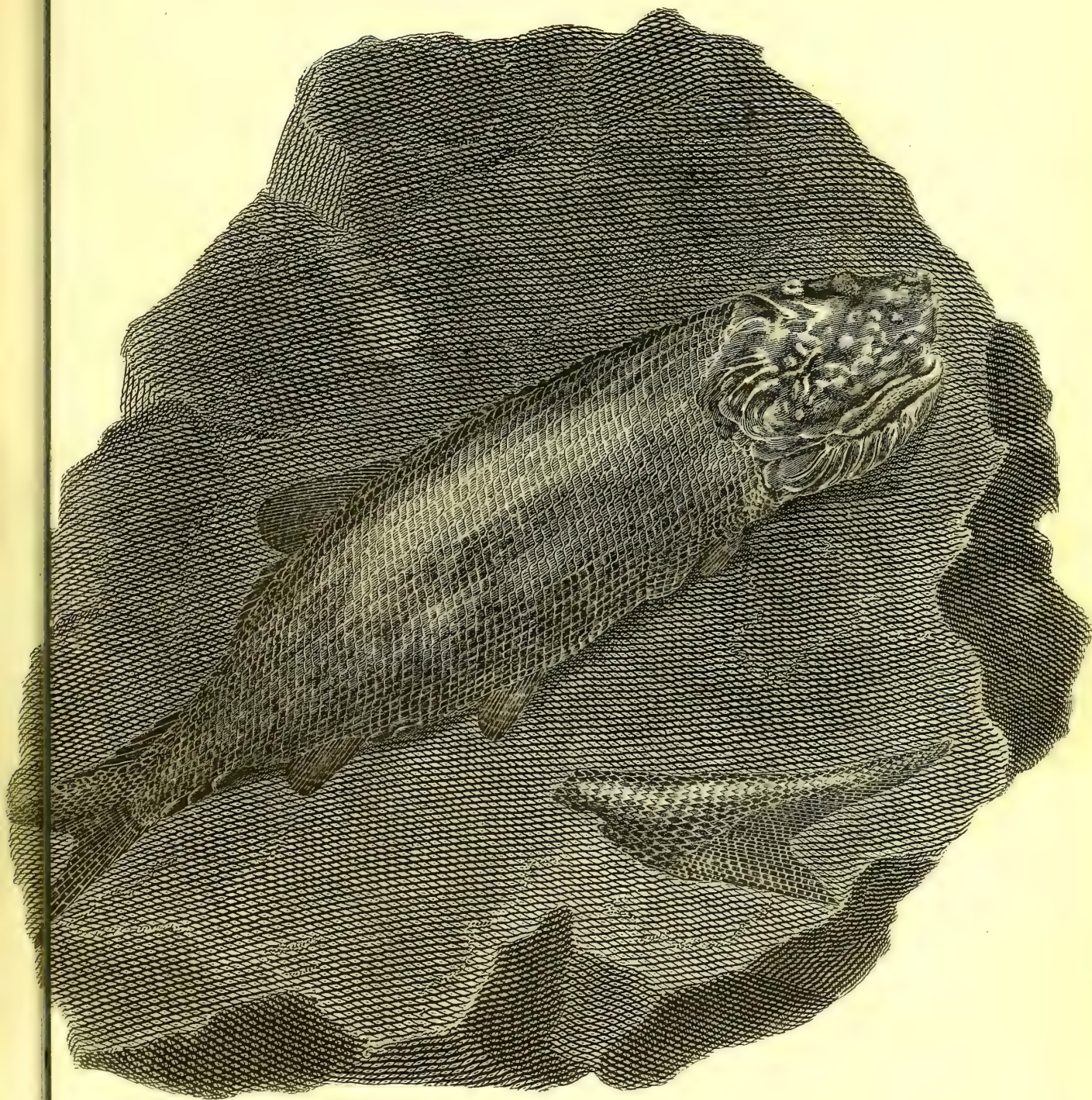






# ICHTHYOLITE.

*Ichthyological remains.*



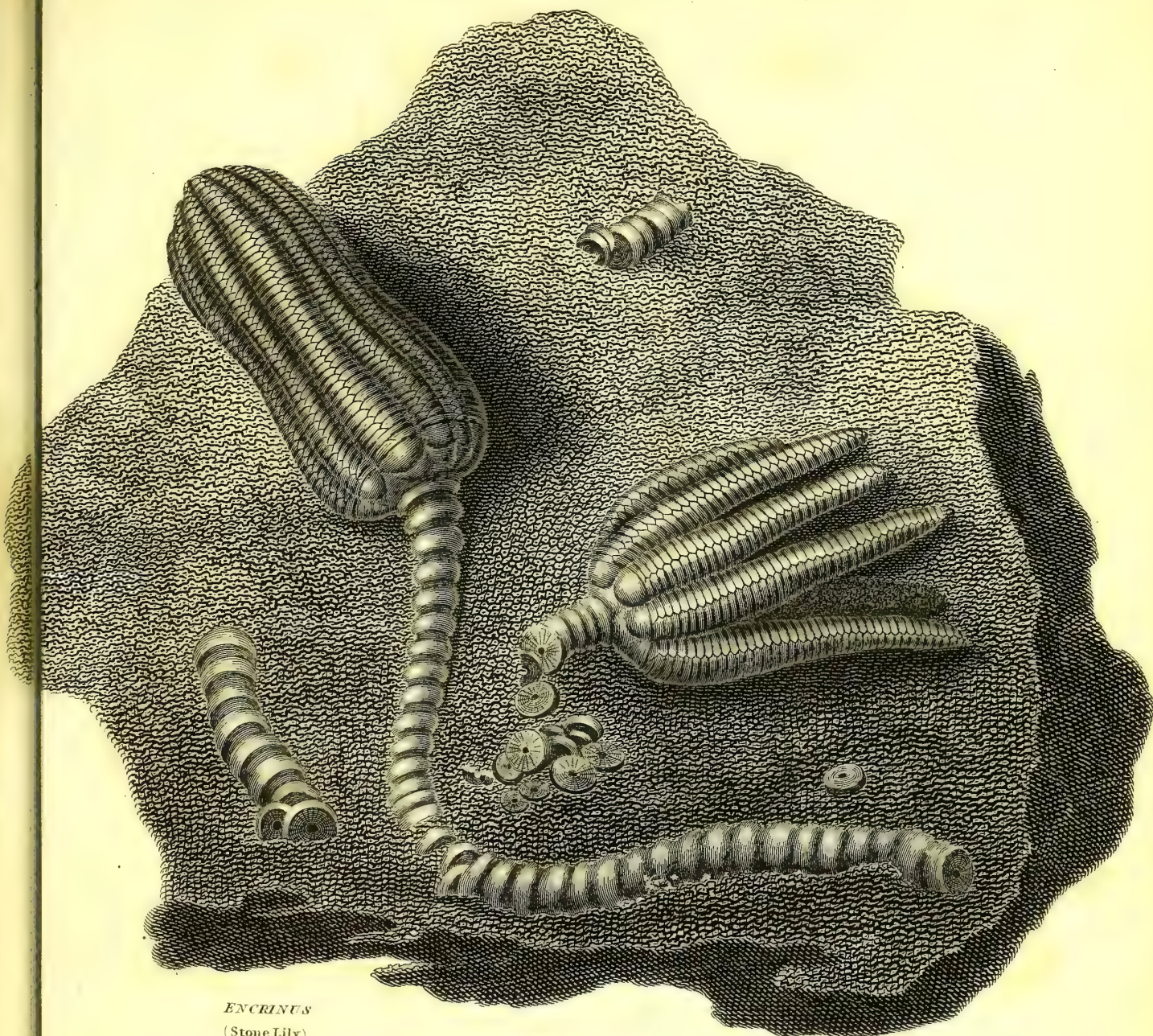
*Impression of Fishes on Black Schistose Slate found at Isleben in Germany.*

*Published as the Act Surveys Aug. 1<sup>st</sup> 1880 by Longman Hurst Rees & Orme Paternoster Row.*

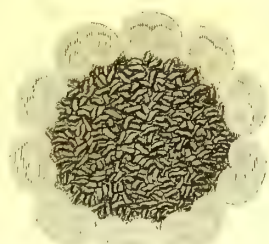




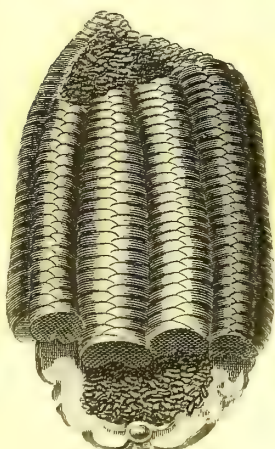




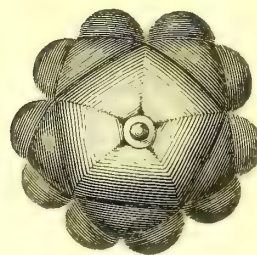
*ENCRIINUS*  
(Stone Lily)



*Transverse Section of the  
Lily Head.*



*L.H.<sup>d</sup> broken transversely.*



*Bottom of the L<sup>s</sup> Head.*





## ADAMANTINE SPAR

Fig. 1.

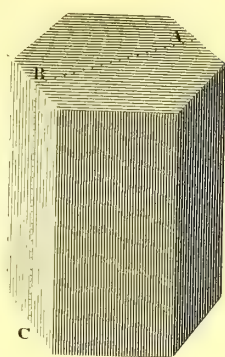


Fig. 2.

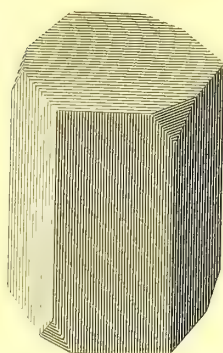


Fig. 3.

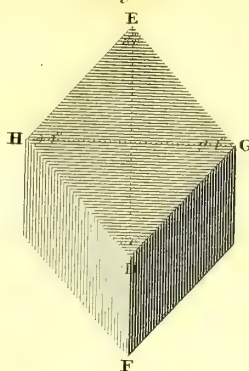


Fig. 4.

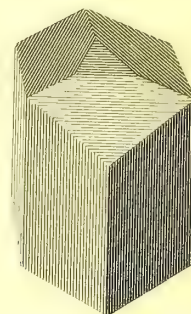


Fig. 5.

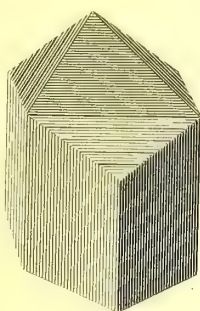


Fig. 6.

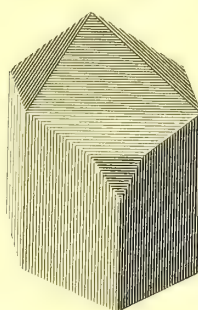
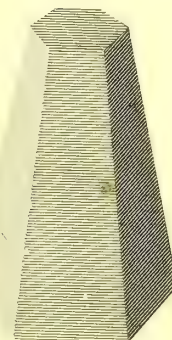


Fig. 7.



## FELSPAR

Fig. 8.

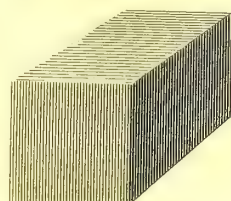


Fig. 9.

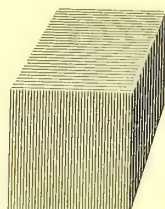


Fig. 10.

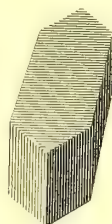


Fig. 11.

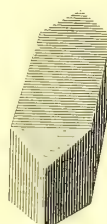


Fig. 12.

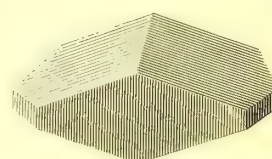


Fig. 13.

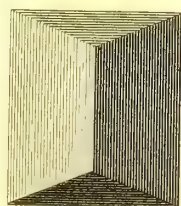


Fig. 14.

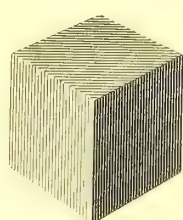


Fig. 15.

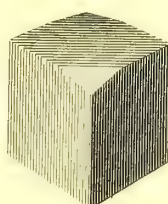
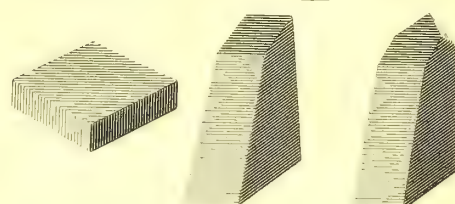


Fig. 16.







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Fig. 17.

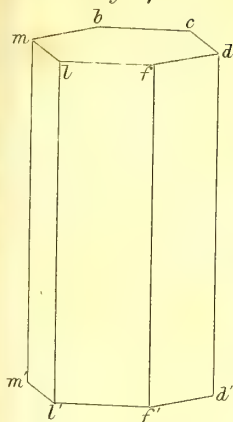


Fig. 18.

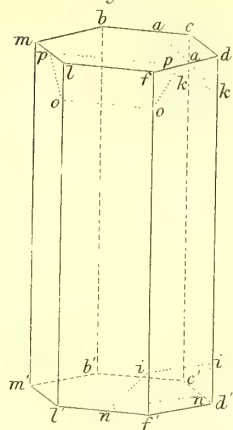


Fig. 19.

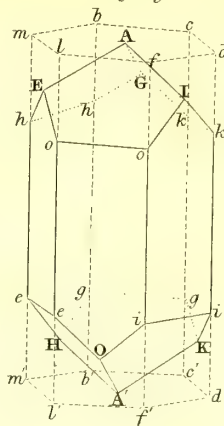


Fig. 20.

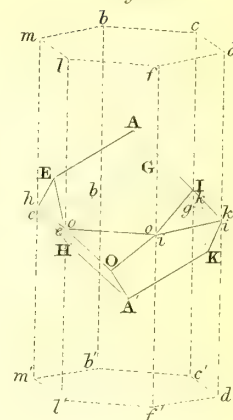


Fig. 21.

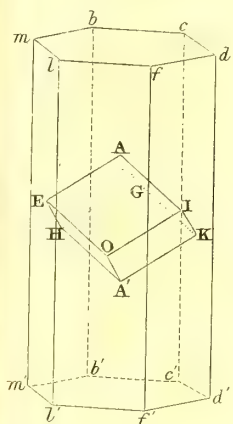


Fig. 22.

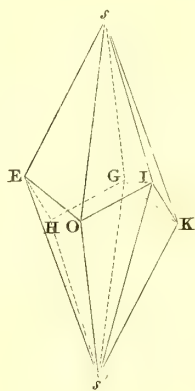


Fig. 23.

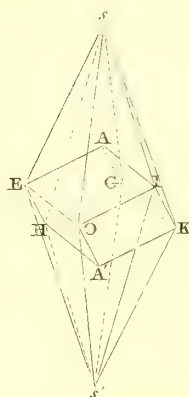


Fig. 24.

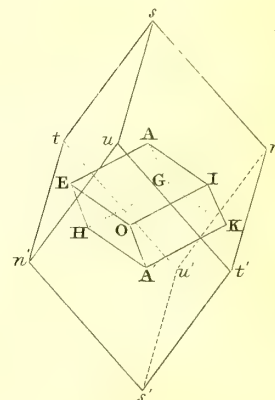


Fig. 26.

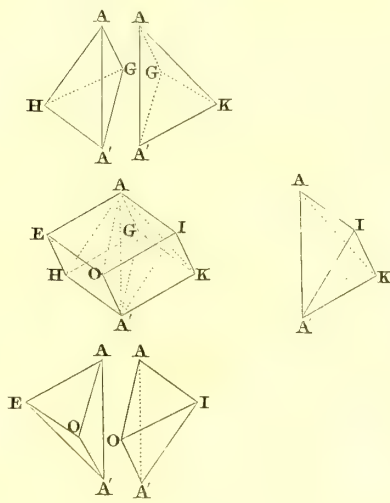


Fig. 25.

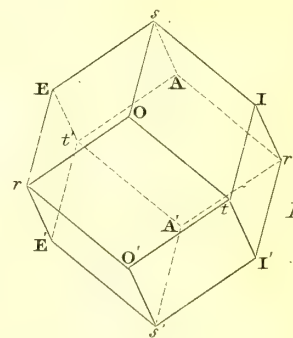
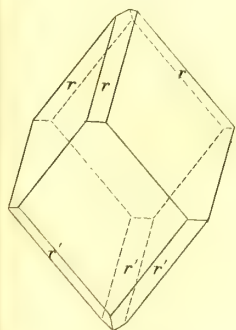


Fig. 27.





CRYSTALLIZATION, *Theory of,*

Fig. 28.

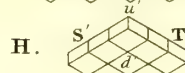
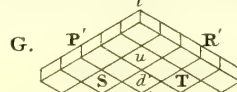
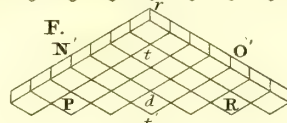
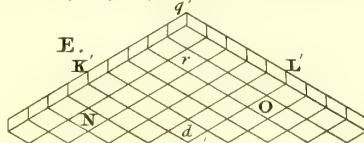
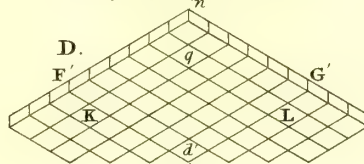
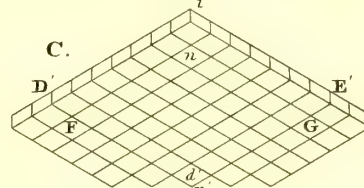
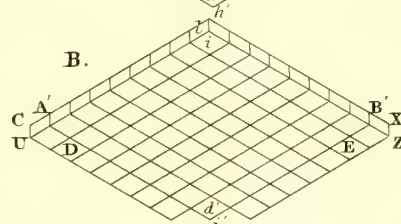
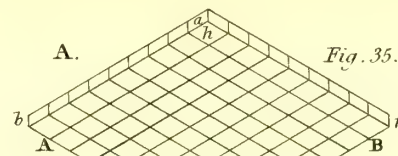
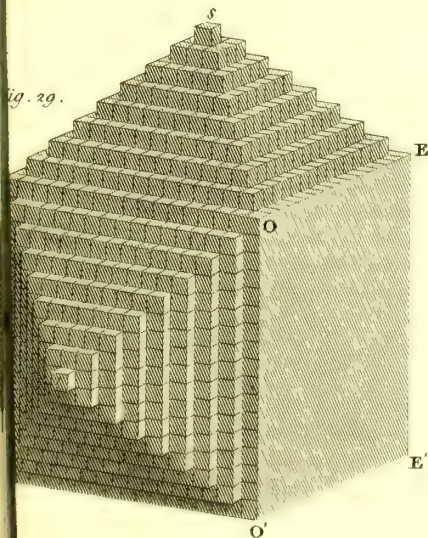
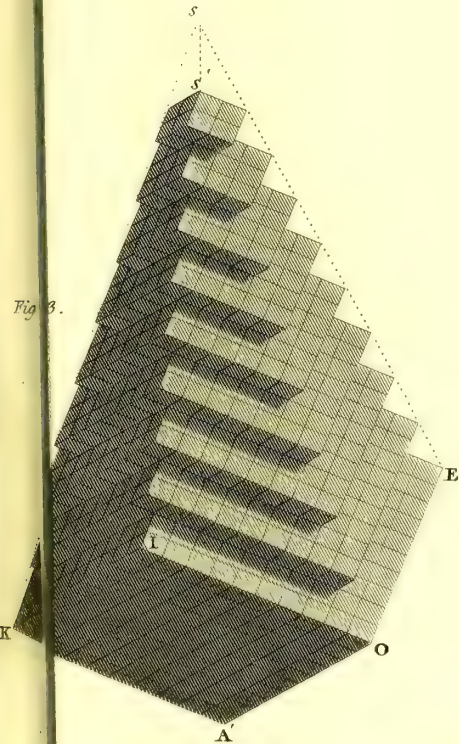
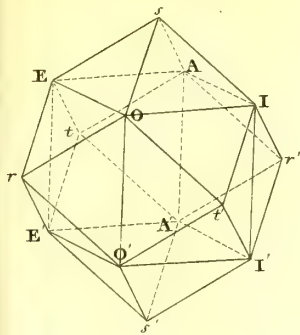


Fig. 34.

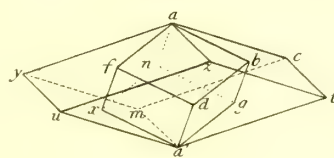


Fig. 30.

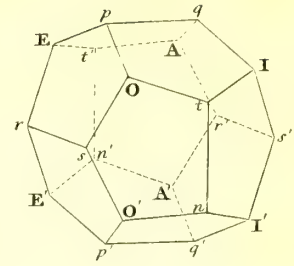


Fig. 31.

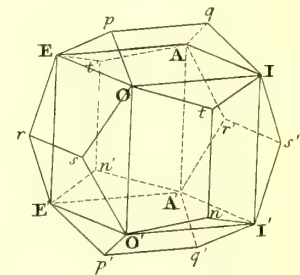


Fig. 32.

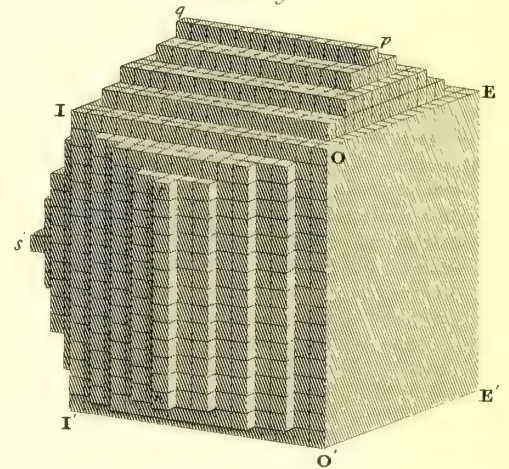
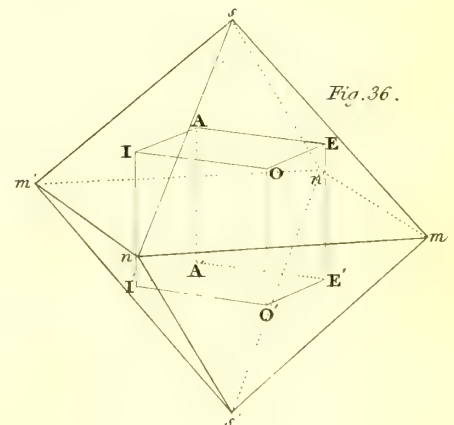


Fig. 36.







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Fig. 39.

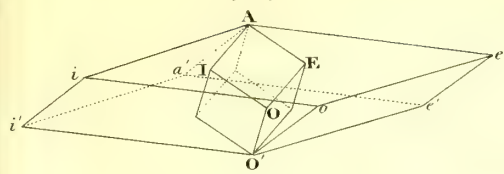


Fig. 38.

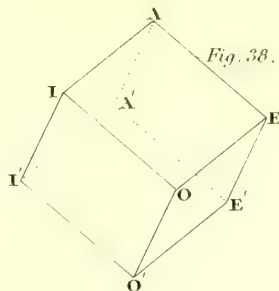


Fig. 37.

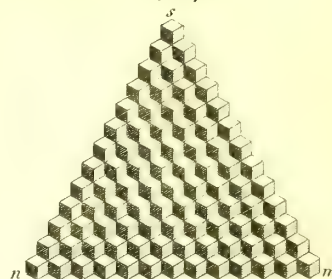


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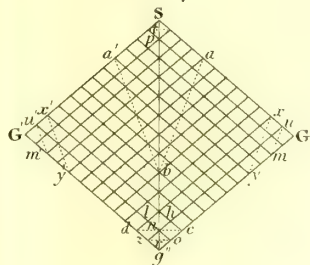


Fig. 46.

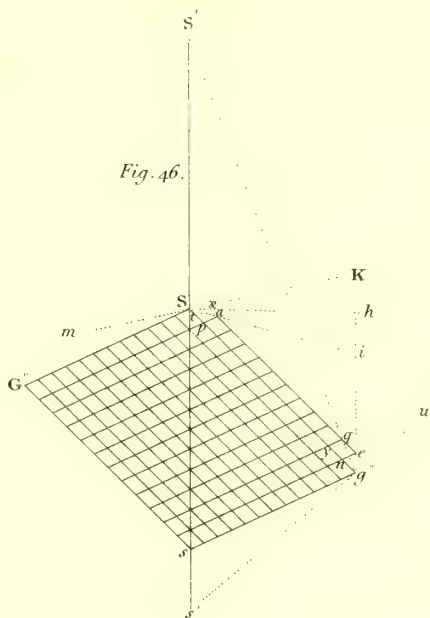


Fig. 45.

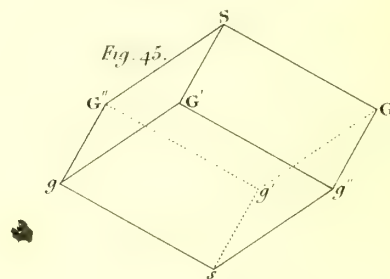


Fig. 48.

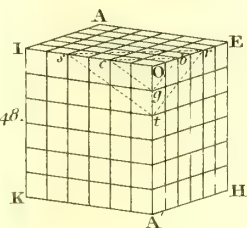


Fig. 49.

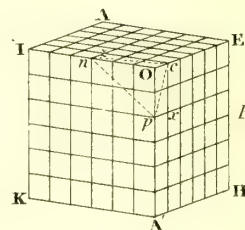


Fig. 53.

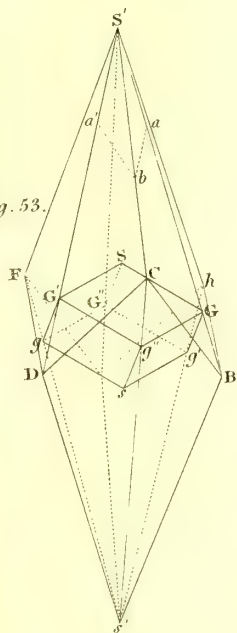


Fig. 52.

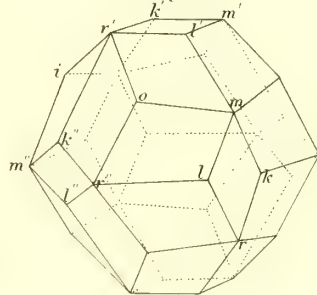


Fig. 51.

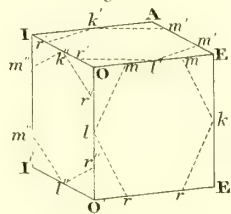


Fig. 50.

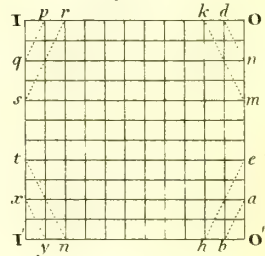


Fig. 55.

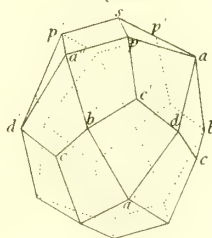


Fig. 54.

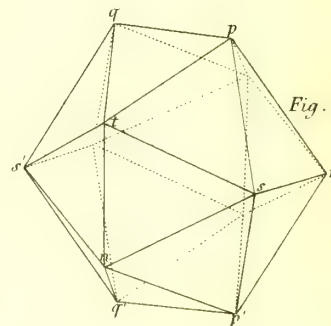
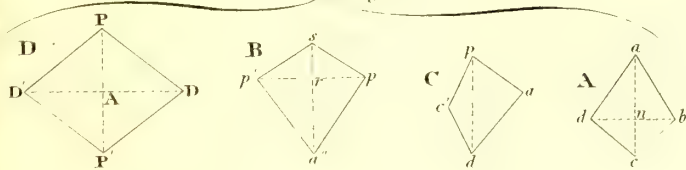


Fig. 55.







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Fig. 56.

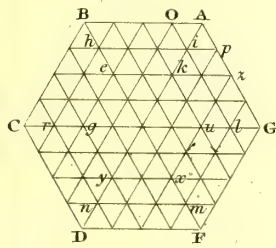


Fig. 57.

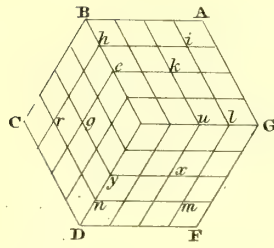


Fig. 58.

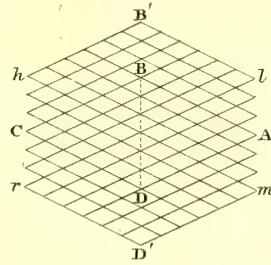


Fig. 59.

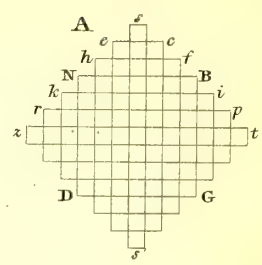


Fig. 60.

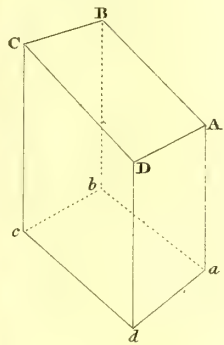


Fig. 61.

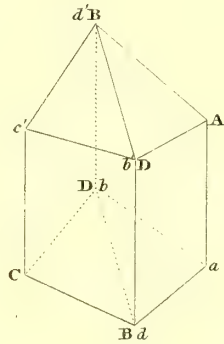


Fig. 62.

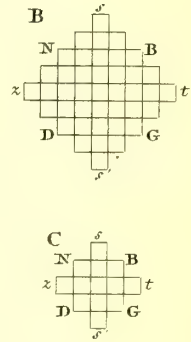
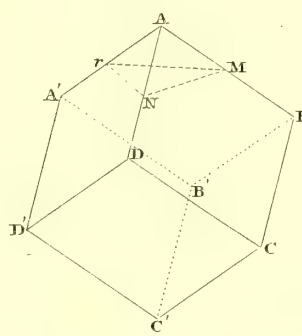


Fig. 63.

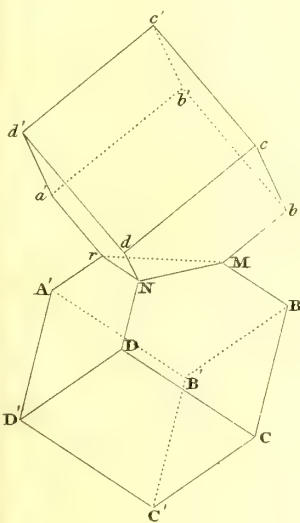


Fig. 64.

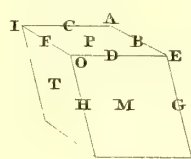


Fig. 65.

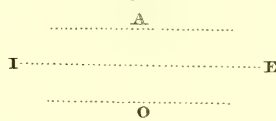


Fig. 66.

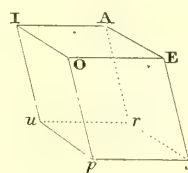


Fig. 67.

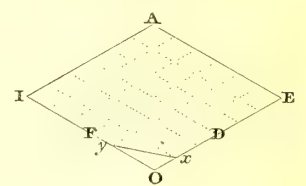


Fig. 68.

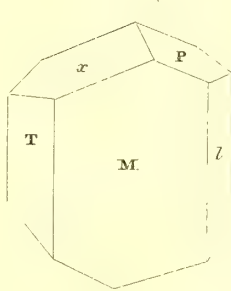


Fig. 69.

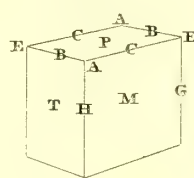


Fig. 70.

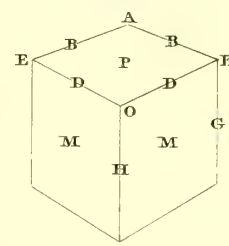


Fig. 71.

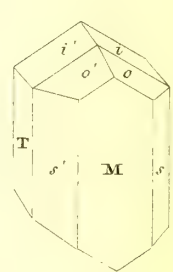


Fig. 72.

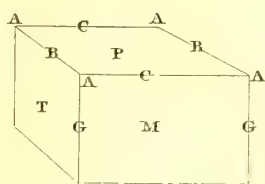


Fig. 73.

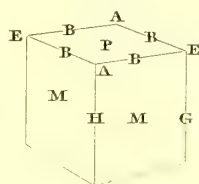


Fig. 74.

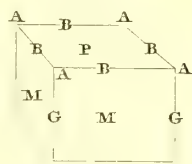


Fig. 75.

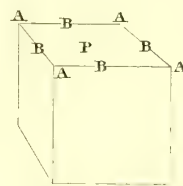
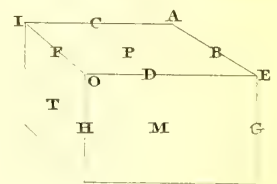


Fig. 76.

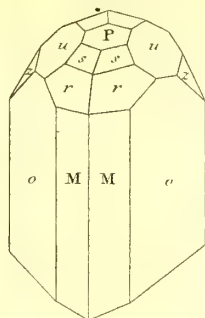




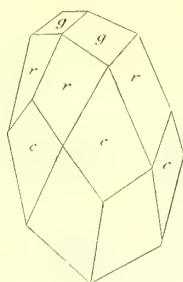


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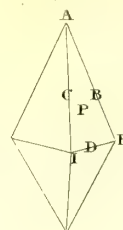
*Fig. 77.*



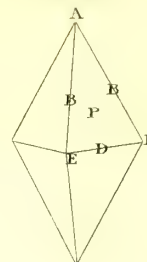
*Fig. 79.*



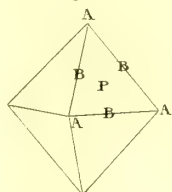
*Fig. 80.*



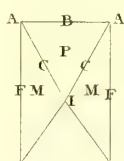
*Fig. 81.*



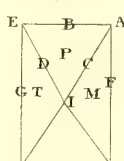
*Fig. 82.*



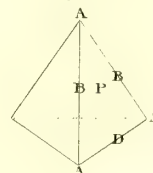
*Fig. 83.*



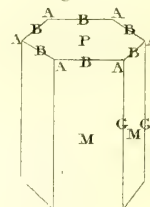
*Fig. 84.*



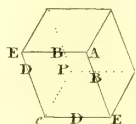
*Fig 85*



*Fig. 86.*



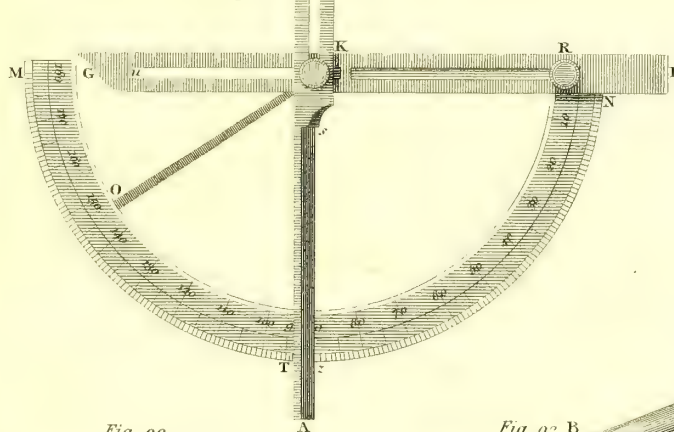
*Fig. 89.*



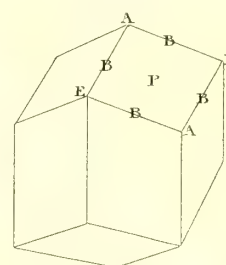
*Fig. 91.*



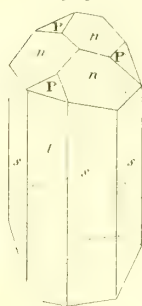
*Fig. 93.*



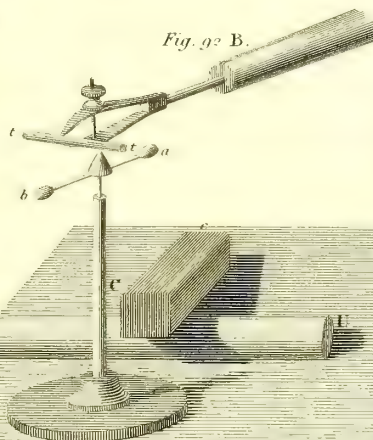
*Fig. 88.*



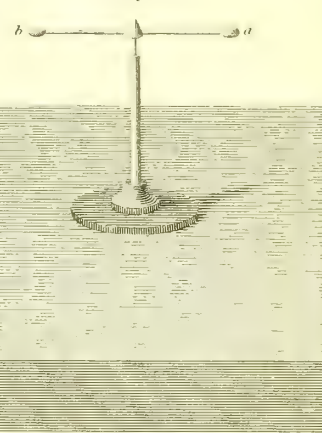
*Fig. 90.*



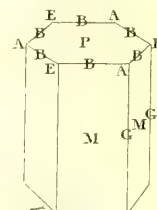
*Fig. 92 B.*



*Fig 92 A.*



*Fig. 87*





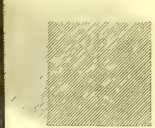


# CRYSTALLIZATION.

see Mineralogy Appendix.

PLATE VII.

Cube. Fig. 1.



Rhomb. Fig. 2.

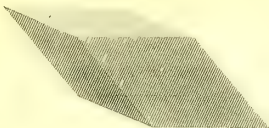


Fig. 3.

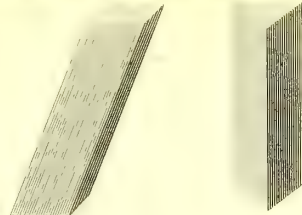


Fig. 5.



Varieties of the Prism.

Fig. 4.



Pyramid.

Fig. 6.

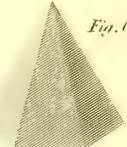


Fig. 7.

Table.

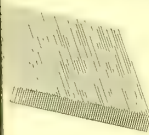
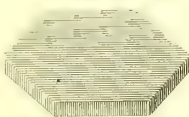


Fig. 8.



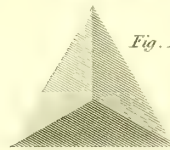
Double six sided Pyramid.

Fig. 14.



Tetrahedron.

Fig. 13.



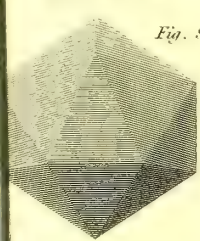
Lens.

Fig. 11.



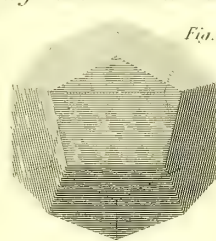
Icosahedron.

Fig. 9.



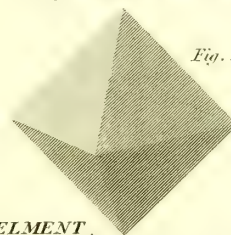
Pentagonal Dodecahedron.

Fig. 10.



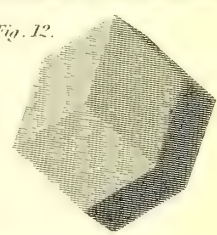
Regular Octohedron.

Fig. 27.



Rhomboidal Dodecahedron.

Fig. 12.



## TRUNCATION

On the Angles.

On the Edges.

On all the Edges.

On all the lateral Edges.

On the Angles.

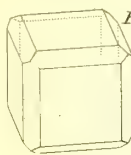


Fig. 17.

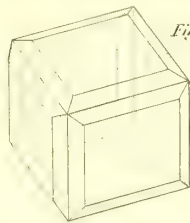


Fig. 18.

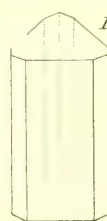


Fig. 19.

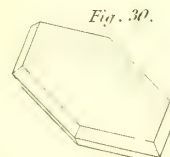


Fig. 30.

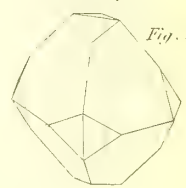


Fig. 28.

## ACUMINATION. The Acuminating Planes.

On the lateral edges.

On the lateral planes.

On the lateral angles.

Fig. 20.

At each Angle set on the lateral planes.

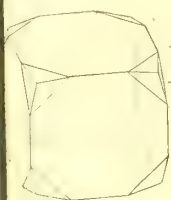


Fig. 21.

Fig. 22.

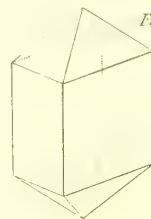
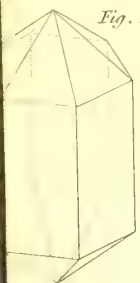


Fig. 23.

On the lateral planes.

Fig. 24.



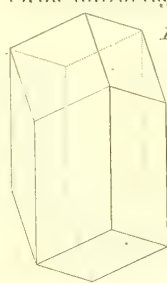
On the alternating lateral planes.

Fig. 25.



On the lateral edges.

Fig. 26.



Double eight sided pyramid, four planes at each extremity set on the alternate lateral edges.

Fig. 29.

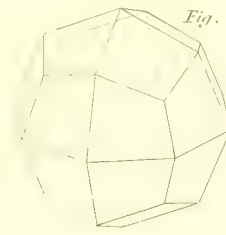


Fig. 31.

Double six sided Pyramid, with the planes joined obliquely, or Metastatic Crystal.































